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EDITORIAL NOTE

With the completion of the current volume of the PSYCHOLOGICAL ABSTRACTS, the present editor retires from office and passes his duties and responsibilities over to Dr. C. M. Louttit, the new editor. This occasion offers a fitting opportunity to thank the many psychologists in this country and abroad for the time and energy which they have devoted, during the past twenty years, to the development of an adequate bibliographic service for psychology. Without their unselfish co-operation this journal could not exist. For the adequate coverage of the overseas literature, the aid and advice of the foreign collaborating editors have been invaluable. They deserve the gratitude of psychologists everywhere. Of the original editorial board, four members have died: V. M. Bekhterev (USSR), Ed. Claparède (Switzerland), G. C. Ferrari (Italy), and R. R. Willoughby (USA). One editor, W. Wirth, retired in 1938 as a result of political conditions in Germany. These were great men in science, and their passing or retirement was not merely a loss to the ABSTRACTS but also to the profession as a whole. Finally, it is a pleasure to acknowledge the editor's debt to the ideas, initiative, and devotion to duty of his assistant editors: R. R. Willoughby (1925–1939), H. L. Ansbacher (1939–1943), and Alda B. Hunter (1943–1946).

W. S. HUNTER

GENERAL

(incl. Statistics)

4409. **Abel, T. M. The seventeenth annual meeting of the Eastern Psychological Association.** *Amer. J. Psychol.*, 1946, 59, 475–476.—*D. E. Johannsen* (Tufts).

4410. **Achilles, P. S. The consulting services of the Psychological Corporation.** *J. consult. Psychol.*, 1946, 10, 120–126.—*S. G. Dulsky* (Personnel Inst., Chicago).

4411. **Alexander, F. S. Psychologists' functions in hospitals.** *Bull. Canad. psychol. Ass.*, 1946, 6, 48–50.—Abstract.

4412. **Andrews, T. G. Demonstrations for the introductory psychology course.** *Amer. Psychologist*, 1946, 1, 312–323.—Types of demonstrations are discussed, references and manuals are listed, and several classroom demonstrations are described.—*N. R. Bartlett* (Johns Hopkins).

4413. **[Anon.] Le professeur Edouard Claparède.** (Professor Edouard Claparède.) *Acta Psychol., Hague*, 1941, 5, 1–6.—Obituary.—*R. Piret* (Liége).

4414. **Baxter, J. P., 3rd. Scientists against time.** Boston: Little, Brown, 1946. Pp. xv + 473. $5.00.—In this official but popularly written history of the war research conducted under the Office of Scientific Research and Development, psychological material will be found primarily in a brief chapter on selection and training by D. L. Wolfle. The chapters on aviation medicine by D. W. Bronk and the chapter on operations research also deal specifically with problems of the human factor. The accounts of radar, subsurface warfare, new devices for air warfare, fire control, and communications give the reader some view of the setting for much psychological work that was accomplished under OSRD.—*W. S. Hunter* (Brown).

4415. **Bernard, W. Freud and Spinoza.** *Psychiatry*, 1946, 9, 99–108.—A comparison is drawn between the views of Spinoza and those of Freud, with the discovery of a congruence, both in basic views and in minor consequences. Both philosophies emphasize the importance of self-preservation, the pleasure-pain principle, the concept of the unconscious, the existence of primitive libidinal forces, the conceptualization of psychic energy either as "desire" or as "libido," and the effectiveness of conscious understanding of drives in securing better adjustments. 69-item footnote bibliography.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4416. **Blatz, W. E. Child psychology as a career.** *Bull. Canad. psychol. Ass.*, 1946, 6, 45.—Abstract.

4417. **Bliss, C. I. An experimental design for slope-ratio assays.** *Ann. math. Statist.*, 1946, 17, 232–237.—*N. R. Bartlett* (Johns Hopkins).

4418. **Bois, J. S. Psychology in industry.** *Bull. Canad. psychol. Ass.*, 1946, 6, 36–38.—Abstract.

4419. **Boring, E. G. [Chm.] Annual report of the Policy and Planning Board of the American Psychological Association: 1946.** *Amer. Psychologist*, 1946, 1, 330–335.—*N. R. Bartlett* (Johns Hopkins).

4420. **Brandt, A. Psychology in industry.** *Indian J. soc. Work*, 1946, 7, 1–10.

4421. **Brugmans, H. J. F. W. Gerard Heymans (1857–1930).** (Gerard Heymans, 1857–1930.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1942, 36, 33–46.—This article is an analysis of Heymans' work in philosophy. For a study of his psychological work, the author refers to prior publications. He notes that Heymans founded the first psychological laboratory in Holland in 1892.—*R. Piret* (Liége).

4422. **Burtt, H. E. The 1946 meeting of the Midwestern Psychological Association.** *Amer. J. Psychol.*, 1946, 59, 477.—*D. E. Johannsen* (Tufts).

4423. **Buxton, C. E. Planning the introductory psychology course.** *Amer. Psychologist*, 1946, 1, 303–311.—Topic headings cover: (1) kind of course to be taught; (2) problems of procedure and policy; (3) lecture planning and delivery; (4) reading materials; (5) examinations; and (6) a sample course outline. 50-item bibliography.—*N. R. Bartlett* (Johns Hopkins).

4424. **Camp, B. H. The effect on a distribution function of small changes in the population function.** *Ann. math. Statist.*, 1946, 17, 226–231.—*N. R. Bartlett* (Johns Hopkins).

4425. **Carmichael, L. Edwin Bissell Holt: 1873–1946.** *Amer. J. Psychol.*, 1946, 59, 478–480.—Obituary and appreciation.—*D. E. Johannsen* (Tufts).

4426. **Castiglioni, G. A proposito del volume di Filippo Lersch di Lipsia: "Seele und Welt."** (Concerning Lersch's "Seele und Welt.") *Contr. Lab. Psicol., Milano*, 1944, 12, 533–535.—Abstract. (See also 15: 2883.)

4427. **Cazzaniga, A. Il reattivo mentale di Szondi.** (Mental reactivity of Szondi.) *Contr. Lab. Psicol., Milano*, 1944, 12, 526–527.—Abstract.

4428. **Cochran, W. G. Relative accuracy of systematic and stratified random samples for a certain class of populations.** *Ann. math. Statist.*, 1946, 17, 164–177.—*N. R. Bartlett* (Johns Hopkins).

4429. **Coermann, R. Ein elektrisches Gerät zur Bestimmung der oberen Tongrenze.** (An electrical apparatus for determining the upper pitch limit.) *Luftfahrtmedisin*, 1944, 9, 82–94.—A new electro-acoustic apparatus for determining the upper pitch limit is described in detail. It consists essentially of a valve generator as the source of current and of a crystal-operated, bone-conduction receiver as the sound transmitter. In its construction, special consideration has been given to minimal weight, small dimensions, independence of location, and non-sensitivity to temperature. Results of measurements obtained with this apparatus are cited.—*F. C. Sumner* (Howard).

4430. **Columbia University, Statistical Research Group. Sequential analysis of statistical data: applications.** (OSRD, 1945; Publ. Bd., No. 6711.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 312. $3.50, microfilm; $21.00, photostat.—Contents: Section 1, Sequential analysis in inspection and experimentation (introduction) 24 pp.; Section 2 (second revision), Sequential analysis when the result of a single observation is a classification as good or bad and when the result of the test is acceptance or rejection (binomial distribution) 81 pp.; Section 3 (revised), Sequential analysis when the result of a single observation is a classification as good or bad and when the result of the test is a decision between two methods or products (double dichotomies) 61 pp.; Section 4 (revised), Sequential analysis when the quality being tested is measured and when the question is whether a standard is exceeded or fallen short of (mean of normal distribution, known standard deviation, one-sided alternative) 28 pp.; Section 5, Sequential analysis when the quality being tested is measured and when the question is whether a lot differs from a standard (mean of normal distribution, known standard deviation, two-sided alternative) 20 pp.; Section 6 (revised), Sequential analysis of variability of quality about the average (standard deviation of normal distribution, one-sided alternative) 42 pp. Appendices: Some properties and principles of sequential analysis, 56 pp. Formulae, tables, and graphs are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4431. **Cook, P. H. A note on professional standards for psychologists in Australia.** *Occup. Psychol., Lond.*, 1946, 20, 150–152.—Minimum requirements are given for membership in various professional societies and for employment in the newly created, permanent psychological positions with the Commonwealth Public Service.—*G. S. Speer* (Illinois Inst. Tech.).

4432. **Davis, F. B. Item-analysis data; their computation, interpretation, and use in test construction.** *Harv. Educ. Pap.*, 1946, No. 2. Pp. v + 42.—An item-analysis chart is presented and described which makes available in one reading both a difficulty index and a discrimination index for most usable test items. The difficulty index for any item is not expressed in terms of a simple proportion of right responses but in terms of a linear scale that makes it possible readily to obtain an estimate of the difficulty of several items by averaging the composite difficulty indices. The discrimination index, in place of the usual product-moment correlation coefficient, is also corrected to form a linear scale, with similar useful properties. A formula is presented which corrects for the number of choices in each item, the number of subjects who do not have time to reach each item, and the number of subjects who omit each item. Tables present the relation between the more usual percentages of success corresponding to the difficulty indices and correlation coefficients corresponding to discrimination indices. The value of expert criticism of items, particularly before statistical analysis, is stressed. The effects of overlapping of item and criterion, of internal weighting on test validity, and of item difficulty on test discrimination are discussed.—*J. S. Fulcher* (Brown).

4433. **Doll, E. A. The divisional structure of the APA.** *Amer. Psychologist*, 1946, 1, 336–345.—*N. R. Bartlett* (Johns Hopkins).

4434. **Duffy, E. The thirty-eighth annual meeting of the Southern Society for Philosophy and Psychology.** *Amer. J. Psychol.*, 1946, 59, 473–474.—*D. E. Johannsen* (Tufts).

4435. **Espallier, V. d'. In memoriam E. Claparède.** (E. Claparède—in memoriam.) *Vlaam. Opvoedkund. Tijdschr.*, 1941, 22, 33–34.—Obituary and appreciation.—*L. Coetsier* (Ghent).

4436. **Fernberger, S. W. Scientific publication as affected by war and politics.** *Science*, 1946, 104,

175–177.—Curves are presented which show the fluctuations in the number of publications in psychology which have appeared during the period 1894–1945 in English, German, and all others (predominantly, French and Italian are the languages represented in this category). The two World Wars and political changes on the continent are reflected in the graphs; particularly noticeable are the drops during wartime. One must conclude that systematic science cannot flourish during wartime or in a political situation in which the scientists do not have freedom of thought and in which there are continued elements of uncertainty.—*F. A. Mote* (Wisconsin).

4437. **Ferris, C. D., Grubbs, F. E., & Weaver, C. L. Operating characteristics for the common statistical tests of significance.** *Ann. math. Statist.*, 1946, 17, 178–197.—*N. R. Bartlett* (Johns Hopkins).

4438. **Fuerstenthal, A. H., & Zach, E. Ensaio de psicologia intencional.** (Essay on intentional psychology.) *Impr. med., Rio de J.*, 1946, 21, 79–82.

4439. **Girshick, M. A. Contributions to the theory of sequential analysis. I. Applications of sequential analysis to the ranking of two populations with respect to a single parameter.** *Ann. math. Statist.*, 1946, 17, 123–143.—*N. R. Bartlett* (Johns Hopkins).

4440. **Goldberg, H., & Levine, H. Approximate formulas for the percentage points and normalization of t and χ^2.** *Ann. math. Statist.*, 1946, 17, 216–225.—*N. R. Bartlett* (Johns Hopkins).

4441. **Greeff, E. de. Philosophes et psychologues.** (Philosophers and psychologists.) *Tijdschr. Phil.*, 1941, 3, 567–586.—A conflict exists between philosophers and psychologists. The former accuse the latter of not making use of philosophy, while the latter accuse the philosophers of losing themselves in speculation. The author believes that both viewpoints err and that the difficulty is soluble. Reconciliation may be difficult by written word, but it is possible through direct contact. The meeting of the two points of view requires "a certain philosophical solicitude on the psychologist's part and a certain disposition toward scientific information by the philosopher."—*R. Piret* (Liége).

4442. **Gulliksen, H. Paired comparisons and the logic of measurement.** *Psychol. Rev.*, 1946, 53, 199–213.—The author's purpose is to present a somewhat broader definition of measurement than has been given by certain other writers and to show that scales constructed by the method of paired comparisons will satisfy this broader definition of measurement. Significant features of the method of paired comparisons and the law of comparative judgment have been consistently ignored. It has several advantages over other psychological scaling methods. Besides satisfying criteria for ordinal scales, scales constructed by this method satisfy a generalization of the criterion specified by Campbell for additive scales. The nature of scale values is discussed. Paired comparison scales should be classified as defined magnitudes. Developments during the past 20 years warrant greater use of the method of paired comparisons as a psychological scaling method. 24 references.—*M. A. Tinker* (Minnesota).

4443. **Guttman, L. An approach for quantifying paired comparisons and rank order.** *Ann. math. Statist.*, 1946, 17, 144–163.—*N. R. Bartlett* (Johns Hopkins).

4444. **Hermans, R. La Fontaine en het vraagstuk der dierenziel.** (La Fontaine and the problem of the soul of animals.) *Studia cathol.*, 1943, 19, 161–171.—In his second collection of fables and in his *Discours à Madame de la Sablière*, La Fontaine is interested in the problem of the soul of animals. He is acting under the influence of the philosopher, François Bernier. La Fontaine believes that the soul of animals is a sensitive and vegetative principle of life. It is different from man's spiritual soul, but yet it possesses a sort of associaitve knowledge and rudimentary comprehension. He hides behind a poetical veil when justifying himself for attributing higher mental processes to animals.—*R. Piret* (Liége).

4445. **Hughes, H. A. Experimental data and sufficient accuracy.** *Nature, Lond.*, 1946, 158, 29.

4446. **Ketchum, J. D. Psychology and public opinion research.** *Bull. Canad. psychol. Ass.*, 1946, 6, 43–44.—Abstract.

4447. **Knight, R. George Frederick Stout: 1860–1944; an appreciation.** *Brit. J. educ. Psychol.*, 1946, 16, 53–56.—Obituary and portrait.—*R. C. Strassburger* (St. Joseph's College for Women).

4448. **Kriekemans, A. Over de geesteswetenschappelijke methode.** (On method in sciences of the mind). *Vlaam. Opvoedkund. Tijdschr.*, 1941, 22, 225–230.—During classical antiquity, philosophy and science were essentially one. The separation of science from philosophy has come only during modern times. Science has developed its own method—analysis. The sciences became more and more numerous and found hegemony under the natural sciences in the 18th century. Dilthey (1833–1911) made the first distinction between the sciences of the mind and the natural sciences. With respect to psychology, he defends the methods employed by the mental sciences, i.e., structural methods. He understands mind to mean an organic whole to which analytical methods do not apply. The application of structural methods has given rise to certain typologies such as Spranger's. But inductive clinical methods also have given rise to typologies, i.e., Kretschmer's. He rejects neither method; on the contrary, he believes the two may have a happy and rich interaction.—*L. Coetsier* (Ghent).

4449. **Laycock, S. R. Psychology and teaching techniques.** *Bull. Canad. psychol. Ass.*, 1946, 6, 31–32.—Abstract.

4450. **Liddy, R. B. Psychology and vocational guidance.** *Bull. Canad. psychol. Ass.*, 1946, 6, 35–36.—Abstract.

4451. **Marks, —. The Hipp clock.** (BIOS, 1946; Publ. Bd., No. 30969.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $1.00, microfilm;

$1.00, photostat.—Descriptions of the mechanism, the method of operation, and the erection and working of the Hipp clock are given in this English translation of a German document. The Hipp clock makes it possible to take direct readings of 1/1000th of a second. The face of the clock carries a large dial with markings for tenths of a second and a smaller dial with markings for the thousandth part of a second. The clockwork is set in motion by a driving weight as soon as the stop is removed by the reversing of the starting lever. The movement of the clockwork is regulated by a tuned spring which makes 1,000 oscillations to the second. Every time the spring rises, 1 tooth of the steadying wheel is released so that this great wheel advances 1 step in 1/1000th of a second. By means of springs and an adjusting screw, the armature of the 2 electromagnets is set so that in the rest position the connecting rod engages the spur wheel of the driving shaft and rotates with it. A number of defects of this instrument are listed and discussed, particularly its sensitivity to shock and external electrical influences.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4452. **Marquis, D. G. [Dir.] The Office of Psychological Personnel: report for the year 1945.** *Amer. Psychologist*, 1946, **1**, 346–348.—*N. R. Bartlett* (Johns Hopkins).

4453. **Miller, D. L. The meaning of explanation.** *Psychol. Rev.*, 1946, **53**, 241–246.—"Can we make a significant distinction between description and explanation?" The author attempts to show that this can be done and to show what explanation "rightfully means in modern science." The view that any statement that goes beyond the facts is to be condemned as metaphysical, and its corollary that the rightful function of science is to describe only, is considered false. Description without explanation is blind and sterile. For the development of laws, i.e., prediction, description is not enough because "intelligibility is entirely lacking in description *per se*." The factor essential to explanation is designated as native acquaintance with the elements into which a situation can be analyzed. "This *native acquaintance* might well be called a *primitive subintellectual experience*. . . ." Explanatory experiences, therefore, are not altogether intellectual. These primitive and necessary experiences, "when made explicit, or when we become intellectually conscious of them, constitute the basis of *explanation*."—*M. A. Tinker* (Minnesota).

4454. **Moore, H. Psychology and business.** *Bull. Canad. psychol. Ass.*, 1946, **6**, 38–39.—Abstract.

4455. **Morton, N. W. Psychology and the armed services.** *Bull. Canad. psychol. Ass.*, 1946, **6**, 41–43.—Abstract.

4456. **Myers, C. R. Psychology in marriage and family counselling.** *Bull. Canad. psychol. Ass.*, 1946, **6**, 47–48.—Abstract.

4457. **Paulus, J. Les deux directions de la psychologie bergsonnienne et la méthode introspective de l'Essai.** (The two directions of Bergson's psychology and the introspective method of the *Essai*.) *Tijdschr. Phil.*, 1943, **5**, 85–140.—Bergson's work reveals a strange duality between attitudes and influences. On one hand, it has contributed to the spread of the psychology of consciousness and introspective methods; on the other, it has served with the action psychologists and objective methods. Bergson in his first book, *Essai sur les donnéés immédiates de la conscience*, follows a psychology of consciousness and structuralism, while in later works he falls in line with action psychology and functionalism. The *Essai*, while promising, is based upon the past.—*R. Piret* (Liége).

4458. **Peers, M. Ovide Decroly.** (Ovide Decroly.) Brussels: Office de Publicité (Lebègue), 1942. Pp. 76.—The works of the late Belgian psychologist and teacher are discussed.—*R. Piret* (Liége).

4459. **Piercy, Lord, & Myers, C. S. The Institute's 25th annual general meeting: addresses by the president and by Dr. C. S. Myers.** *Occup. Psychol., Lond.*, 1946, **20**, 105–112.—The 25 years of development and progress are reviewed by Lord Piercy, the president of the National Institute of Industrial Psychology. There have been 3 major lines of development: research in factors affecting the work curve, methods of vocational selection, and vocational guidance. It is expected that in the future there will be continuing activity in these areas, together with improved facilities for teaching. Myers emphasized the necessity for co-operative research in industrial problems, particularly the co-operation of psychiatrist and psychologist.—*G. S. Speer* (Illinois Inst. Tech.).

4460. **Piéron, H. Les univers des animaux à côté de l'univers de l'homme.** (The 'worlds' of animals compared with the 'world' of man.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 1/3, 1–28.—The extent to which various forms of life, from protozoa to man, are "living in the same world" is discussed. The conclusion is that there is considerable commonality.—*E. P. Johnson* (Brown).

4461. **Pillsbury, W. B. Clarence Stone Yoakum: 1879–1945.** *Psychol. Rev.*, 1946, **53**, 195–198.—Obituary and portrait.—*M. A. Tinker* (Minnesota).

4462. **Prentice, W. C. H. Operationism and psychological theory.** *Psychol. Rev.*, 1946, **53**, 247–249.—The author is disturbed that no one of the contributors to the recent symposium on operationism (see **20**: 20) seems really worried that positivism may turn into negativism by stifling the development of new and useful theories. The discussions and criticisms of operationists "have produced a social climate in which the psychological theorist may hesitate to present theories which contain non-operational definitions." Material from the literature is cited and discussed to clarify the view that the positivistic pressure has completely negated the force of certain theories.—*M. A. Tinker* (Minnesota).

4463. **Princeton University, Statistical Research Groups. The statistical sign test.** (OSRD, 1945; Publ. Bd., No. 23726.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 22. $0.50, microfilm; $2.00, photostat.—This memorandum presents and illustrates a simple statistical test for judging whether one of two materials or treatments is better than the other. The data to which the test is applied consist of paired observations on the two materials or treatments. The test may be used in conjunction with methods of sequential analysis, or applied to the problem of comparing the observations on one material with any function of the corresponding observations on the other material. It is immaterial whether all the pairs of observations are comparable or not. However, when all the pairs are comparable, there are more efficient tests which take account of the magnitudes as well as the signs of the differences. Even in this case, the simplicity of the sign test makes it a useful tool for a quick preliminary appraisal of the data. Tables and references are included. This report incorporates an earlier report on the sign test as applied to certain problems in the comparison of underwater effectiveness of explosives.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4464. **Révész, G. Bericht über die Tätigkeit des psychologischen Laboratoriums der Universität Amsterdam.** (Report on the activity of the psychological laboratory of the University of Amsterdam.) *Acta Psychol., Hague*, 1941, **5**, 50–70.—The author reviews the work done in this laboratory during the last 10 years. Research has been mainly concerned with tactual sensation, vision, the human hand, language, aptitudes, and several questions relating to child, animal, group and industrial psychology. The psychology of advertising was of interest in a number of studies. The author speaks of a method, which he has pioneered, that is employed in selecting personnel for high positions in industry, commerce, and public administration. 44 references.—*R. Piret* (Liége).

4465. **Selz, O. Die Aufbauprinzipien der phänomenalen Welt.** (The constructive principles of the phenomenal world.) *Acta Psychol., Hague*, 1941, **5**, 7–35.—Associationists and Gestaltists, in spite of certain differences, both explain the construction of the phenomenal world by the same dynamic principles which have been used to explain the make-up of the physical world. One must go back to these constructive principles of phenomena, that is to say, to phenomena with conjoint qualities. Two exist: gradual growth (enlargement or diminution according to the degree of purity of the sensation) and repetition. Analysis of these principles leads to the discovery of the laws of formation of "forms" and of "wholes." These laws lend themselves to synthetic representation. English summary.—*R. Piret* (Liége).

4466. **Smith, D. E. Psychology and public service: recruiting, training, and supervising government employees.** *Bull. Canad. psychol. Ass.*, 1946, **6**, 39–41.—Abstract.

4467. **Sperling, A. P. Psychology for the millions.** New York: Frederick Fell, 1946. Pp. xiv + 397. $3.00.—In 15 chapters the author discusses sensory behavior, individual differences, heredity and environment, emotions, endocrine glands, personality, intelligence, sex development, and similar topics, as they relate to common daily problems. The basic material is drawn from traditional psychological sources, but the illustrative materials are drawn from popular sources such as newspaper columns, fiction, anecdotes, and so on.—*G. S. Speer* (Illinois Inst. Tech.).

4468. **Stearns, M. W. A note on Chaucer's use of Aristotelian psychology.** *Stud. Philology*, 1946, **43**, 15–21.—The key words "impress" or "impression" are usually present. The impression is made on the heart, mind, or soul; the depth of the impression is emphasized; and the process is adapted to explain the cause of dreams, the working of love, and the origins of various illusions and delusions.—*W. L. Wilkins* (Notre Dame).

4469. **Stieglitz, E. J. Geriatrics.** *J. Gerontology*, 1946, **1**, 153–164.—"Geriatrics deals with medical problems of normal aging and aged people as well as their illnesses, both mental and physical." Clinical problems peculiar to geriatrics warrant attention during the 40 to 60 period. Gerontology is divisible into 3 major divisions: biology of senescence; geriatrics; and the sociologic, economic, and cultural problems of an aging population. Crossing all specialized fields, geriatrics may be thought of as applied gerontology and described as a point of view which takes cognizance of the processes and consequences of aging. Clinical problems of later maturity, senescence, and senility are concerned with special problems, because of particular characteristics of older people, and problems presented by the nature of diseases commonly observed in later years. Less obvious but extremely important universal changes are alterations in homeostatic mechanisms, metabolic and nutritional changes, intellectual and emotional differences, and variation in immunity and in the capacity to repair. Careful psychometric studies reveal that rate of learning depreciates very slowly during maturity and senescence. The goal of geriatrics is to maintain maximum vigor and health during aging.—*R. W. Beebe* (Washington Inst. Ment. Hyg.).

4470. **Sturgeon, S. S. Standard time interval generator (9A1).** (Naval Ordnance Lab. Memo., 1945; Publ. Bd., No. 27074.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 10. $1.00, microfilm; $1.00, photostat.—The design and operation are given of a device for producing standard 1-minute time intervals. The over-all accuracy for 1-minute time interval is good to 1 part in 50,000 for a 1-hour period or longer. The standard is a spring driven Seth Thomas jeweled clock movement equipped with a sweep second-hand. An optical system and photocell arrangement are employed in such a manner that interruption of the two by the sweep hand occurs once per minute, triggering a

1-tube electronic relay circuit.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4471. **Ten Have, T. T. Over de ontwikkelingsidee bij Felix Krüger.** (On the idea of evolution in Felix Krüger.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1942, 36, 63–76.—Krüger's psychology of totality is evolutionistic. He has freed the notion of evolution from all metaphysical elements by rejecting the idea of final causes. But his theory does not rest on solid experimental results. Furthermore, his method is inacceptable. Finally, his principle of evolution, *Drang nach Ganzheit*, lends itself to many criticisms. —*R. Piret* (Liége).

4472. **Tschermak-Seysenegg, A. Das Metroscop, ein Apparat zur vergleichenden Untersuchung des Masstabes beider Augen.** (The metroscope, an apparatus for comparative investigation of eye measurement.) *Klin. Mbl. Augenheilk.*, 1940, 104, 485–502.—In monocular vision there may be a certain amount of anisometroscopia; in binocular vision such defects may be accentuated considerably. An apparatus is described for the investigation of these differences in size of retinal image.—(Courtesy *Année psychol.*).

4473. **Vatnsdal, J. R. Minimal variance and its relation to efficient moment tests.** *Ann. math. Statist.*, 1946, 17, 198–207.—*N. R. Bartlett* (Johns Hopkins).

4474. **Vernon, W. H. D. Some professional problems of the consulting psychologist.** *J. consult. Psychol.*, 1946, 10, 136–142.—*S. G. Dulsky* (Personnel Inst., Chicago).

4475. **Wald, A. Sequential analysis of statistical data: theory.** (OSRD, 1943; Publ. Bd., No. 6690.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 188. $2.00, microfilm; $13.00, photostat.—Sequential analysis is a new process by which statistical data are analyzed continuously as they become available. The fundamental finding is that whenever the hypothesis under examination (null hypothesis) is to be tested against a single alternative hypothesis, a sequential test can be made as follows: (1) after each observation, calculate the logarithm of the ratio of the probability that the observation would occur were the alternative hypothesis true; (2) add this logarithm to the sum of the similar logarithms for all previous observation. If the sum exceeds a certain positive value, a^*, accept the alternative hypothesis. If the sum is less than a certain negative value, b^*, accept the null hypothesis. If the sum is between a^* and b^* the data are insufficient for a decision of the requisite reliability. The requisite reliability is the basis for determining a^* and b^*. Denote by "a" the maximum acceptable probability that if the null hypothesis is true it will be rejected erroneously in favor of the alternative hypothesis, and by "β" the maximum acceptable probability that if the null hypothesis is false it will be accepted erroneously instead of the alternative hypothesis. Then a^* is the logarithm of the ratio $1-\beta$ to a; and b^* is the logarithm of the ratio of β to $1-a$. A second report on application of sequential analyses is in preparation.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4476. **Wald, A., & Wolfowitz, J. Tolerance limits for a normal distribution.** *Ann. math. Statist.*, 1946, 17, 208–215.—*N. R. Bartlett* (Johns Hopkins).

[See also abstracts 4477, 4502, 4524, 4570, 4690, 4729.]

NERVOUS SYSTEM

4477. **Ashby, W. R. Principles for the quantitative study of stability in a dynamic whole system; with some applications to the nervous system.** *J. ment. Sci.*, 1946, 92, 319–323.—The methods of mathematical physics are adequate for the handling of the complex stabilities of the nervous system. As one dynamic system can start from any one of many configurations, and as each resulting line of behavior can be stable or not independently of the others, so a single dynamic system may be stable to some disturbances and unstable to others. Solution of the differential equations which describe such stabilities gives in direct form a description of how the system will behave when observed over some finite time.—*W. L. Wilkins* (Notre Dame).

4478. **Bonin, G. v. Remarks on the brain of the gorilla.** *Amer. J. phys. Anthrop.*, 1946, 4, 261.

4479. **Granit, R. Some properties of post-excitatory inhibition, studied in the optic nerve with micro-electrodes.** *Ark. Zool.*, 1945, 36A, No. 11, 1–8.—See *Biol. Abstr.* 20: 12489.

4480. **Lennox, M., & Brody, B. S. Paroxysmal slow waves in the electroencephalograms of patients with epilepsy and with subcortical lesions.** *J. nerv. ment. Dis.*, 1946, 104, 237–248.—*L. B. Heathers* (Univ. Washington).

4481. **Riese, W. The cerebral cortex in the very old human brain.** *J. Neuropath. exp. Neurol.*, 1946, 5, 160–164.

[See also abstracts 4545, 4556, 4566, 4577, 4606, 4607, 4610, 4648.]

RECEPTIVE AND PERCEPTUAL PROCESSES

4482. **Adams, J. K., & others. The relationship of visual acuity to acuity of stereoscopic vision.** (OSRD, 1943; Publ. Bd., No. 27296.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 23. $1.00, microfilm; $2.00, photostat.—This relationship was examined to see whether lowering of the present standard of visual acuity would result in an increase in the number of men passing the stereoscopic tests, thus increasing the pool of men eligible for training as stereoscopic height-finder observers. The test of visual acuity serves as an effective and time-saving screening device for the stereoscopic tests. However, it does not in any sense replace the stereoscopic tests, since, of the men with 20/20 vision or better,

only 12% pass the stereoscopic tests.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4483. **Balavoine, P. Sensibilité du goût aux sels cupriques.** (Sensitivity of taste to cupric salts.) *Arch. Sci. phys. nat.*, 1945, **27**, Suppl., 33–35.—See *Biol. Abstr.* 20: 12464.

4484. **Balcomb, C. B. Stereoscopic training equipment.** (AAF, Engng Div., 1944; Publ. Bd., No. 7166.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 2. $0.50, microfilm; $1.00, photostat.—Tests are described which were made of methods of securing stereoscopic, 3-dimension photographs which would be particularly suitable for training purposes.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4485. **Beals, L. S., Jr., & others. Further report on the testing of efficiency of night vision: comparative reliability and validity measures on the adaptometer and the self-luminous tele-silhouette adaptometer.** (Bur. Med. Surg., 1943; Publ. Bd., No. 23047.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 38. $0.50, microfilm; $3.00, photostat.—An extensive experimental test was conducted on the following adaptometers: Beals adaptometer; self-luminous tele-silhouette as revised at the U. S. Submarine Base, New London, Conn.; and Hecht-Shlaer portable adaptometer, Royal Canadian Navy model. Testing procedures and results on the 3 models are described. The 3 instruments are compared with respect to test-retest reliability. Intercorrelations are presented, together with correlations with several other possibly significant variables.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4486. **Bender, M. B., & Teuber, H. L. Nystagmoid movements and visual perception; their interrelation in monocular diplopia.** *Arch. Neurol. Psychiat., Chicago*, 1946, **55**, 511–529.—Two cases of monocular diplopia were studied to investigate the causal factors involved in the accompanying perceptual changes. It is suggested by the authors that ocular movements during fixation play a major role and that "ocular movements during fixation impress one as a necessary, but not a sufficient, condition for the development of monocular diplopia." Additional causal factors contributing to the extensive distortions of perception are noted. "We thus have three levels of causation, which are here summarized in inverse chronologic order. (1) The nystagmoid movements during fixation—a necessary condition for monocular diplopia in these cases; (2) a disruption of the equilibrium of perceptual functions by a toxic or an inflammatory process—the precipitating factor; (3) finally, in both cases there was the predisposing factor: The equilibrium before its disruption by disease or experiment was different from the equilibrium found in normal persons."—*K. S. Wagoner* (DePauw).

4487. **Blackwell, H. R. Laboratory studies of the visibility of targets.** (OSRD, 1944; Publ. Bd., No. 22660.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 25. $0.50, microfilm; $2.00, photostat.—As a portion of the program of the Camouflage Section of NDRC, experiments were conducted to establish the human capacity for visual detection. The experiments were designed to simulate field conditions with provision for precise control over the variables known to be relevant. It was desired that visual functions be quantified so that the capacity of the human observer could be treated as one of the known variables contributing to the visibility of targets. The experiments reported cover a wide range of experimental conditions. Field brightnesses were investigated ranging from 100 footlamberts to total darkness. Target sizes were studied ranging from 360 to 0.6 minutes of arc. Shapes were investigated from circles to 100: 1 rectangles. Exposures were tested from 6 seconds to an indefinitely long time, and studies of targets both brighter and darker than the background were made. More than two million observations of targets were made under laboratory conditions. The results of the tests are discussed.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4488. **Bliss, A. F. The chemistry of daylight vision.** *J. gen. Physiol.*, 1946, **29**, 277–297.—Wald's discovery of iodopsin, a red-sensitive pigment from chicken eyes, is confirmed. This substance resembles rhodopsin in its chemical properties but is more labile. The rate of bleaching of iodopsin was found to be of first order and linear with respect to energy; its bleaching effectiveness spectrum as determined with the aid of color filters of known energy transmission shows a maximum at 560 mμ in the yellow-green with a lower plateau in the blue. This spectrum is in good agreement with the sensitivity of human cones except for the wave length of maximum bleaching effectiveness which in human cones is found at about 450 mμ. Previous reports of changes in pH and inorganic phosphate levels of retinas due to bleaching could not be confirmed in these experiments.—*P. Kellaway* (McGill).

4489. **Blum, H. F. Report on fusion density sun-scanning goggles.** (Bur. Med. Surg., 1944; Publ. Bd., No. 23032.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 5. $0.50, microfilm; $1.00, photostat.—An evaluation was made of the fusion density goggle devised by W. Miles for sun-scanning, and it was compared with the variable density goggle and with no goggle. The preferences of 23 subjects favored slightly the fusion density goggle over the variable density goggle for sun-scanning. Most of the subjects preferred using one or the other goggle rather than no goggle at all, but there were some exceptions. The advantages and disadvantages of the fusion density principle are discussed. This, or any dark-lensed, enclosed goggle, tends to defeat its purpose by bringing about a certain degree of dark adaptation which is to some extent avoided by open spectacles. It is suggested that the adaptation of the polaroid aviation goggle No. 1067 to the fusion density principle might have certain advantages, since dark adaptation would be reduced and since the dark lenses need only be used when desired.

Another sun-scanning device for limited use is described.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4490. **Brock, F. W. Space perception in its normal and abnormal aspects.** *Optom. Wkly*, 1946, **37**, 1193–1196; 1202; 1235–1238.—The 2 eyes form a single sensory continuum, with cortical representation of a single binocular field in the normal individual; in cases of unilateral suppression or strabismus, a type of ambiocular space perception may be built up which may become sufficiently stable to prevent the establishment of a normal relationship between the eyes after surgical correction of strabismus. Preoperative training in binocular vision may contribute to postoperative stability of binocular space perception.—*D. J. Shaad* (Kansas City, Kans.).

4491. **Carhart, R. Speech reception in relation to pattern of pure tone loss.** *J. Speech Disorders*, 1946, **11**, 97–108.—The purpose of this study was to determine whether the shape of the audiometric curve is related to loss in speech reception. Groups totalling 182 subjects were chosen to represent the following patterns of hearing loss: flat, gradual high tone, marked high tone, notched beyond 2048 cycles, atypical, and mixed. As criteria of pure tone loss, both the better ear average for 512–2048 c.p.s. and the A.M.A. percentage of hearing loss method were used. Results showed high correlations between speech reception loss and pure tone loss by each criterion except for the "marked high tone loss" pattern. It appears from the data that acuity between 512 and 1024 c.p.s. is more closely related to speech reception than acuity for higher frequencies. The pure tone average is considered a better clinical measure of speech reception than the A.M.A. percentage loss computation.—*W. H. Wilke* (New York Univ.).

4492. **Chapanis, A. The quantitative measurement of visual fields.** (AAF, Tech. Rep., 1944; Publ. Bd., Nos. 1421 & 5184.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—One important criterion used in the evaluation of flying goggles, helmets, oxygen masks, and combinations thereof is the extent to which these pieces of equipment afford an unrestricted field of view when they are worn by aircrew personnel. Perimetric apparatus used in the measurement of visual fields provides data on the limits of vision in any direction from the primary line of sight. Present methods of treating these separate data, however, do not yield a single quantitative statement of visual field size. It is shown in this report that the solid angle subtended by the cone of vision with its apex at the eye constitutes a measure of the size of the visual field. Methods are derived for the rapid and accurate determination of the size of the cone of vision in steradians, or multiples of a unit solid angle.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4493. **Crocker, E. C. Flavor.** New York: McGraw-Hill, 1945. Pp. vii + 172. $3.00.—A general treatment of flavor is presented, designed to meet the needs of the food industries. The following items are discussed: the sensory components of flavor and a consideration of the factors that enhance or depress them in attaining the desired flavor; the chemistry of flavoring agents and condiments and the means of developing and preserving flavors in processed foods; accurate methods of testing flavor by taste and smell; consumer testing of foods; appraisal of beverages by taste; and the quality scoring of commercial food products.—*C. Pfaffmann* (Brown).

4494. **Davis, H., Hudgins, C. V., Peterson, G. E., & Ross, D. A. Desirable frequency characteristics for hearing aids.** *J. acoust. Soc. Amer.*, 1946, **18**, 247.—Abstract.

4495. **Dunlap, K. Reply to Elder's note on Dunlap's remedy for color vision.** *Psychol. Bull.*, 1946, **43**, 375.—A reply is made to a note by Elder (see **20**: 1778) on Dunlap's experiment on vitamin A in "color-blindness" (see **19**: 2121). The difficulties of conducting research on a shifting wartime population are stressed.—*S. Ross* (Bucknell).

4496. **Eyring, C. F. Jungle acoustics.** (OSRD, 1945; Publ. Bd., No. 22882.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 33. $0.50, microfilm; $3.00, photostat.—The problems investigated and covered by this paper are: the sound transmission loss through the jungle of the audible frequencies, the sound spectrogram of characteristic ambient jungle noise, and the error involved in judging sound direction in a jungle. Procedures and apparatus used in measurement are described. Temperature and wind profiles, frequency curves, photograph of jungle, and tables of data are included. (For complete reports see Publ. Bd., Nos. 13101 and 13102.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4497. **Fowler, H. M., & others. Interrelationships among seven tests of stereoscopic acuity and the relationship between two tests of visual acuity and two tests of phorias.** (OSRD, 1944; Publ. Bd., No. 27297.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 27. $1.00, microfilm; $2.00, photostat.—Tests were made on 288 soldiers for the purpose of determining the interrelationships among the 7 stereo tests, the agreement of these tests in selecting men with "good" and with "bad" stereo vision, the agreement of the 2 tests of visual acuity, and the agreement of the 2 tests of heterophoria. The 7 tests of stereoscopic acuity are described: (1) the Wulfeck Vectograph test; (2) the Bausch and Lomb Ortho-Rater stereoscopic test; (3) the Keystone stereoscopic tests; (4) the Projection Eikonometer; (5) the M2 Trainer; (6) the Vectograph pursuit test; and (7) the Dearborn-Johnston test. The data gathered on the Massachusetts vision test and the Ortho-Rater indicate that these tests of visual acuity and heterophoria are satisfactory substitutes for each other.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4498. **Frings, H. W., & O'Neal, B. R. The location and thresholds of the contact chemoreceptors of the female horsefly, *Tabanus sulcifrons* Macq.**

(CWS, Med. Div., 1946; Publ. Bd., No. 23851.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 17. $0.50, microfilm; $2.00, photostat.—The object of the experiments reported was to locate the contact chemoreceptors of a representative horsefly and to study some of their properties. These data are of importance for an understanding of the action of repellent compounds on these economically important forms. Proboscis extensions were elicited from female horseflies when a 2 M sucrose solution was touched to the ventral sides of the 4 distal segments and distal half or two thirds of the first segment of the tarsi or to the medium-sized hairs of the labella. Contact of this solution with other parts of the body brought forth no responses. Removal of the labella and immobilization of the legs, so that the tarsi were inactive, destroyed the ability of the insects to distinguish sucrose solution or NH_4Cl solution from water. The tarsal threshold for sucrose solution was 0.06 M and the labellar threshold was 0.02 M. The tarsal contact chemoreceptors allow the flies to distinguish acceptable solutions from unacceptable. It was concluded that the horsefly, *Tabanus sulcifrons*, possesses contact chemoreceptors only on the ventral sides of the 4 terminal segments and the distal half or two thirds of the first segment of the tarsi and on the labella. The receptors are medium-sized hairs found near the margins of the labella and among the larger hairs on the tarsi; however, these may not be the only receptors on these parts. The tarsal chemoreceptors allow the fly to distinguish between acceptable (sucrose) and unacceptable (sucrose plus electrolytes) solutions. The order of thresholds of rejection of the electrolytes is similar to that for the other insects studied thus far and possibly to that for man. The changes in thresholds for sucrose and NH_4Cl during starvation were found to exhibit no clearly marked trends.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4499. **Gardner, I. C. Binoculars for night-seeing.** (CIOS, 1945; Publ. Bd., No. 23184.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 4. $0.50, microfilm; $1.00, photostat.—The German Army was much interested in the development of means for detecting airplanes at night and had not fully decided whether this could best be accomplished by short electromagnetic waves, by infrared, or by night seeing with the eye. Accordingly, research was directed toward the further development of each of the 3 methods. In this connection Zeiss developed the binocular with a 200 mm. objective and magnifications of 40 and 25. Originally 2 uses for this instrument were foreseen. In the first, the binocular was to be used with either an electromagnetic or acoustical device as a finder. In the second, the binocular was to be used as a finder, the observer sweeping the sky continuously. How the binoculars would function for these purposes is discussed in this report. Ten of these large binoculars were ordered and were under construction shortly before the end of the war. The mounts were also under construction, but the work on them was completely destroyed in the bombing of March, 1945. In the meantime Emil Busch had also constructed a large binocular, and it was mounted on a base made by Siemens and Schuckert of Nuremberg. It was finally decided that the construction of the 40 x 200 binocular required too many man-hours, and that it could not be manufactured in the quantities desired. As a compromise, the 25 x 100 binocular was selected as the instrument to be built. Procedure and findings of experiments with these binoculars are described briefly.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4500. **Giles, G. H. Some fatigue and other factors in the use of optical instruments.** *Diopt. Rev. & Brit. J. physiol. Optics*, 1940, 1, 89–100.—Psychological and physiological factors play an important part in the use of range-finding apparatus, one source of error being the physiological inability to appreciate exact coincidences of the two images. The "alternate side" and "breaking incidence" methods of making coincidence are described. Ocular fatigue due to misuse of eyepieces may come from a pseudohypermetropia termed "over focusing." Fatigue and discomfort in the use of binocular instruments may arise from the effects of unequal focusing where one eyepiece is differently focused from the other. Trouble also is experienced when the optical axes of the binoculars do not coincide within tolerable limits with the visual lines of the eye.—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4501. **Hartline, H. K. Problems of visual physiology during the war.** (Publ. Bd., No. 22482.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $0.50, microfilm; $1.00, photostat.—The importance of vision in all kinds of military operations made it inevitable that during the war a great deal of attention was directed toward the investigation of visual problems. The examples selected for review are all concerned with night vision. One of the first problems considered was that of the selection of personnel on the basis of their sensitivity to light, after complete dark adaptation. Mass testing was not reliable; individual testing was too time-consuming and required skilled operators. The Canadians were able to utilize individual testing, and the United States Navy ultimately adopted individual testing procedures. Early in the investigation of the military problems of night vision it became apparent that, while selection was of dubious value, training in night vision offered great promise. The importance of night vision drew attention to many very practical problems of protecting the night visual capacities of personnel. Among these is the problem of the illumination of vehicles, ships, and aircraft for operation at night, particularly for lighting of interiors and for illumination of instruments.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4502. **Hecht, S. The design and construction of a threshold meter for measuring the visual threshold during dark adaptation. Progress report No. 1.**

(1941; Publ. Bd., No. 32632.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $1.00, microfilm; $1.00, photostat.—The original purpose was to devise an instrument for measuring the visual threshold after complete dark adaptation. The experimentation and design for the instrument were the work of S. Shlaer and the author. Subjects discussed in this report are: intensity variation and control, spectrum filter, illumination, exposure control, the course of dark adaptation, form discrimination, construction of wedges and photometer head. A diagrammatic description of the instrument is included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4503. **Hecht, S., Hendley, C. D., Frank, S. R., & Haig, C. Anoxia and brightness discrimination.** *J. gen. Physiol.*, 1946, **29**, 335–351.—Brightness discrimination was studied in individuals breathing oxygen concentrations corresponding to 7 altitudes between sea level and 17,000 ft. At the light intensities employed (0.1, 0.01 and 0.001 millilambert and involving only cone vision), brightness discrimination begins to deteriorate at fairly low altitude, such that at 8,000 ft. it becomes obvious and is marked at 15,000 ft. where the contrast must be increased 100% over sea-level value before it can be recognized. The deterioration starts slowly at low altitude but becomes increasingly rapid the higher the altitude. Impairment of brightness discrimination varies inversely with the light intensity and is most evident under the lowest light intensities studied although it is present at all of them. The thresholds for rod and cone vision are equally affected by anoxia. The relation between brightness discrimination ΔI and the prevailing brightness I has the same quantitative form at all degrees of anoxia. Since oxygen lack causes only a shift along the log I axis, the photochemical receptor system cannot be affected. It is conversion of photochemical change into visual function that is impaired, and this occurs in such a way that the conversion factor varies as the fourth power of the oxygen content of the arterial blood.—*P. Kellaway* (McGill).

4504. **Heuven, J. A. v. Über Bewegungssehen.** (On the seeing of movement.) *Z. Psychol.*, 1942, **152**, 120–125.—Two figures were projected simultaneously on a screen, one consisting of 2 vertical lines and the other of 2 horizontal lines. They were so located that the combination yielded a square. When one of the figures was moved at the proper rate, the entire square (and sometimes the whole visual field) was perceived as moving.—(Courtesy *Année psychol.*).

4505. **Hofe, K. v. Untersuchungen über das Verhalten eines zentralen optischen Nachbildes bei und nach unwillkürlichen Bewegungen sowie mechanischen Verlagerungen des Auges.** (Investigations on the behavior of a central optical afterimage during and after involuntary eye movements as well as mechanical displacements of the eye.) *v. Graefes Arch. Ophthal.*, 1941, **144**, 164–169.—In 19 subjects with congenital nystagmus, Köllner's theory was not verified exactly: the movement of the afterimage did not invariably follow the movement of the eye. In 7 there was no movement at all, and in the others it was present only at certain frequencies of nystagmus. It was also found that the oscillation of the afterimage persisted after the 2 or 3 nystagmic cycles induced by rotation. Mechanical displacement of 22° (cocainized eye drawn from the socket) produced a 14° movement of the image, with these movements persisting after the eye had been replaced. These last results are attributed to subcortical impulses correcting for the primary movement—an example of Göthlin's "sensations of innervation."—(Courtesy *Année psychol.*).

4506. **Hofe, K. v., & Zum Gottesberge, A. M. Die Bewegungen eines zentralen optischen Nachbildes während und nach einer Vestibularisreizung.** (The movements of a central visual afterimage during and after vestibular stimulation.) *Z. Sinnesphysiol.*, 1941, **69**, 222–228.—As a result of nystagmic movements induced by 1–10 rotations, the afterimage was subject to apparent displacement. The amount of the effect varied with the speed and duration of the rotation, the individual, attention, and experience. The rhythmic movements were particularly noticeable during slow rotation; when the rotation was stopped, the displacement did not become apparent at once, but then it lasted as long as 40 sec. (after 10 turns).—(Courtesy *Année psychol.*).

4507. **Imus, H. A. The relationship between test scores obtained on the single and multiple projection eikonometers.** (OSRD, 1943; Publ. Bd., No. 27301.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $1.00, microfilm; $1.00, photostat.—This report describes the development of a multiple projection eikonometer, making it possible to administer a test of stereoscopic acuity to 6 men at one time. It was demonstrated that this instrument gives test results equivalent to those obtained with the single projection eikonometer. Statistical treatment of the test data reveals small differences in the scores on the 2 instruments. An analysis of the test data for the multiple eikonometer, with respect to position of viewing the screen, shows that the position factor probably does not influence test scores.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4508. **Imus, H. A. Manual for the adjustment and operation of the projection eikonometer.** (OSRD, 1943; Publ. Bd., No. 27302.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $1.00, microfilm; $1.00, photostat.—The projection eikonometer, as used in the stereovertical test, provides a measure of stereopsis, the ability of a subject to discern depth. In this test, 2 line images are projected simultaneously on a vertical screen. These images are polarized so that when viewed by the subject through proper polaroid filters only 1 line is visible to each eye. The subject fuses these, thus perceiving a single line. This instrument has been used in the selection of stereoscopic range finder operators.—

(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4509. **Jones, H. M. The function of the labyrinth.** *J. Laryng.*, 1945, 60, 425–440.

4510. **King, B. G., & Birren, J. E. Laboratory test of anti-glare spectacles. Final report.** (Bur. Med. Surg., 1943; Publ. Bd., No. 23056.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—Over 2,400 searches for submerged targets were conducted in the laboratory with and without anti-glare spectacles under simulated field conditions. Results indicate clearly that polaroid spectacles do not increase an observer's ability to sight a submerged target. Use of the spectacles reduced the percent of successful searches by a small, but probably a statistically significant, percentage. The majority of the observers, unaware of their score, concluded that the anti-glare spectacles were of benefit in sighting the target. The observer's attitude toward the use of spectacles was undoubtedly influenced by reduction of glare which defined targets, visible with and without glasses, more sharply. In general, success in the searches increased with increasing altitudes of the observer up to 5,000 ft. (maximum altitude tested) both with and without spectacles at various sun angles and bearings from the sun.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4511. **Kryter, K. D. The effect of plugging the ears on the intelligibility of speech in noise.** *J. acoust. Soc. Amer.*, 1946, 18, 249.—Abstract.

4512. **Kryter, K. D., & others. Experiments with earplugs: (I) their effect on the intelligibility of speech; (II) their use as protection against gun blast.** (OSRD, 1944; Publ. Bd., No. 22912.) Washington, D. C.: U. S. Dep. Commerce, 1946.) Pp. 40. $0.50, microfilm; $3.00, photostat.—This report is concerned with tests of the Harvard Ear Warden, type V-51R, which attempted (1) to evaluate the effect of wearing Ear Wardens on communication with a public-address system, in person-to-person conversation, and with aircraft interphones, and (2) to observe their effectiveness as a protection against gun blasts. It was found that Ear Wardens would probably improve the intelligibility of speech as well as prevent possible hearing losses. Also, Ear Wardens afford for most ears a comfortable, protective mechanism against the deafening and injurious effect of gun blasts and exploding shells.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4513. **Lee, R. H. Determination of effect on dark adaptation of varying intensities of illumination in ready rooms.** (Bur. Med. Surg., 1943; Publ. Bd., No. 22977.) Washington, D. C.; U. S. Dep. Commerce, 1946. Pp. 11. $0.50, microfilm; $1.00, photostat.—Previous tests have shown that red, dark-adapter goggles are adequate to preserve dark adaptation in lighted rooms. This report is concerned with the tests which were made to determine the effectiveness of the goggles for the restoration of the dark adaptation once lost. Tests indicated that an illumination of the ready room at an average of 20 to 30 ft-c. combined with the wearing of goggles for a minimum of 45 min. to insure a state of proper dark adaptation would make it possible for an aviator to have his night vision for fighting within 2 min. after leaving the ready room.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4514. **Lee, R. H. Exploratory project on growth curve of light adaptation.** (Bur. Med. Surg., 1943; Publ. Bd., No. 22984.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 4. $0.50, microfilm; $1.00, photostat.—The state of adaptation of the eye to the dark depends on the time of exposure to a light source as well as the brightness of the source. On this basis, recommendations are made for the procedure to be followed in further studies on dark adaptation.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4515. **Lee, R. H. Effect of short exposures to radiation from a landing signal officer's lamp on dark adaptation.** (Bur. Med. Surg., 1945; Publ. Bd., No. 23041.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—The effects on dark adaptation of accidental exposures of 15 and 60 sec. duration to radiation from the ultraviolet flood lamp which landing signal officers use to activate their fluorescent signal devices were measured. An exposure of 15 sec. duration initially elevated the light perception threshold by 0.10 log units above the terminal threshold, the effect disappearing within 1.5 min. after exposure. An exposure of 60 sec. duration elevated the perception threshold by 0.32 log units above the terminal threshold, the effect disappearing within 2.5 min. after exposure. It was concluded that infrequent exposures of short duration will not appreciably impair dark adaptation.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4516. **Lee, R. H., & others. Determination of effect on dark adaptation of varying intensities of illumination in ready rooms: newly discovered fluctuations of periodic nature occurring in dark adaptation thresholds.** (Bur. Med. Surg., 1943; Publ. Bd., No. 22978.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 5. $0.50, microfilm; $1.00, photostat.—The phenomenon studied consists of a wave-like fluctuation with a 3 to 7 min. period and an irregular amplitude of from 0.05 to 0.25 log units test brightness. It has been found in all dark-adaptation thresholds below the highest levels. When these fluctuations are taken into account and comparisons of data are made by superposition of the individual curves, it becomes apparent that no advantage is to be gained by wearing dark-adapter goggles longer than the 30 min. now recommended. Ready rooms should continue to use illumination of 20 to 30 ft-c. If all red light is used, the intensities should go between 2.5 and 3.8 ft-c.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4517. **Luckiesh, M., & Moss, F. K. Visibility and seeing.** *Diopt. Rev. & Brit. J. physiol. Optics,*

1941, 2, 78–94.—"Visibility is defined as an attribute of the physical characteristics of the object of regard as determined introspectively by an observer possessing normal vision. Therefore seeing may be defined as a function of the visibility of the object and the visual efficiency of the observer. . . . The significance of visibility, as a factor in seeing, is presented through the medium of correlations with certain psychophysiological effects resulting from seeing under conditions which afford various degrees of visibility. These analyses reveal that visibility and ease of seeing are closely related. The frequency of involuntary blinking has been developed as a criterion of ease of seeing and correlated with measurement of visibility. By these correlations, visibility measurements become of the utmost importance in the science of seeing whose most important objectives involve measurements and interpretations in the realm of supra-threshold seeing."—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4518. **McKay-Ferguson, O. Notes on letter acuity.** *Optician*, 1946, 61, 248–252.

4519. **McSwiney, B. A. Visceral sensation.** *Irish J. med. Sci.*, 1945, Ser. 6, No. 239, 647–669.

4520. **Mailer, W. A. The incidence of color deficiency in females.** *Diopt. Rev. & Brit. J. physiol. Optics*, 1942, 3, 88–89.—The entry of women into the railway service in the war gave an opportunity for testing the incidence of color deficiency in women. In this series, the examinees were first tested with Ishihara plates and then examined with the Edridge-Green lantern; none was considered deficient unless she failed the latter test. In all, 3,272 cases were tested, 50 color deficients being found, or 1.50%.—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4521. **Martin, F. E. The importance and measurement of Angle Alpha.** *Diopt. Rev. & Brit. J. phsyiol. Optics*, 1942, 3, 27–45.—The author discusses optical constants of the eye, aberration of the eye, the literature on Angle Alpha and the methods of measurement, clinical and other uses of Angle Alpha and summarizes the controversial subject of definition of the angle. A summary is also given of the theories of various investigators regarding the importance of the Angles Alpha, Gamma, Kappa, etc.—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4522. **Melhuish, H. Hypertension and visual disturbance.** *Diopt. Rev. & Brit. J. physiol. Optics*, 1942, 3, 94–99.—Visual disturbances frequently associated with raised blood pressure make the following types of interest to opticians: essential and malignant hypertension; pregnancy hypertension; and acute and chronic nephritis. The author describes both the optical and medical signs of these conditions. Associated visual disturbances are: headache (arteriosclerotic, uremic, and hypertensive); diminution of vision; "spots before the eyes" to sudden complete blindness; and subconjunctival hemorrhage. Hypertension is not necessarily accompanied by an observable retinal change and sometimes only by slight changes, which may be of 4 grades: (1) spastic phenomena, (2) vascular changes not amounting to conditions 3 and 4, (3) arteriosclerotic retinopathy, and (4) hypertensive retinopathy. The author believes that the terminology applied to hypertensive states is confusing.—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4523. **Merkel, B. M. Aviation deafness.** *J. Ia St. med. Soc.*, 1946, 36, 288–291.

4524. **Miles, W. R. Development of adaptometer for night vision testing. Interim report No. 1.** (1941; Publ. Bd., No. 32637.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $1.00, microfilm; $1.00, photostat.—Steps so far completed are: (1) provision of a working model of an adaptometer of a general type deemed desirable; (2) several conferences with specialists in the field to obtain suggestions for improvement of design; and (3) the turning over of the working model to a manufacturer and an intensive conference with reference to further developments. The report includes a description of the model and a statement embodying the specific points and questions discussed at this conference.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4525. **Miller, C. W., & Beck, L. H. The effects of night binocular design features on the visibility of targets at low levels of illumination.** (OSRD, 1945; Publ. Bd., No. 28700.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 103. $3.00, microfilm; $7.00, photostat.—Data are presented on the relative advantages, at night-sky illumination levels, of exit pupils of 2, 4, 6, 8 and 10 mm. in binoculars of 5X magnification. The program included also studies of the visibility of targets of reduced contrasts, the effect of duration of target exposure, monocular vs. binocular vision, and several other problems. Three appendices present data on the following: (1) variables affecting the night-vision detection of targets, (2) elementary optical theory of binocular performance, and (3) analysis of reduced contrast studies.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4526. **Miller, C. W., & Beck, L. H. Summary of experimental data, a supplement to OSRD Report No. 6128 entitled: The effects of night binocular design features on the visibility of targets at low levels of illumination.** (OSRD, 1945; Publ. Bd., No. 28701.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 169. $4.00, microfilm; $12.00, photostat.—This report gives in tabular form the complete record of right and wrong choices made by each observer when judging the location of a target of a given size with or without the aid of binoculars.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4527. **Newman, E. B., & Flynn, J. Auditory factors in radio range reception.** *J. acoust. Soc. Amer.*, 1946, 18, 248.—Abstract.

4528. **Pinson, E. A. Test for demonstration of the effects of anoxia on vision.** (AAF, Engng Div., 1943; Publ. Bd., No. 6946.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—This report describes a test with which the effects of the moderate anoxia experienced at 12,000 and 15,000 ft. may be demonstrated. Results are given of a visual test with the Luckiesh-Moss Low-Contrast Test Chart when the subjects breathe atmospheric air as compared with breathing oxygen at 12,000, 15,000, and 18,000 ft.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4529. **Pinson, E. A., & Chapanis, A. Tests of dark adaptation and night vision: their reliabilities and intercorrelations.** (AAF, Engng Div., 1943; Publ. Bd., No. 6950.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 19. $0.50, microfilm; $2.00, photostat.—Comparative test-retest reliabilities are presented and analyzed for the following tests: (*a*) The Army Air Forces-Eastman Night Vision Tester (Model 1); (*b*) the Army Air Forces-Eastman Night Vision Tester (Model 2); (*c*) the Johnson Foundation Luminous Plaque Adaptometer; (*d*) the Luckiesh-Moss Low-Contract Test Chart; and (*e*) the Hecht-Shlaer (NDRC) Portable Adaptometer.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4530. **Pinson, E. A., Chapanis, A., & Rouse, R. O., Jr. The effect of moderate anoxia on contrast sensitivity at low levels of illumination.** (AAF, Engng Div., 1943; Publ. Bd., No. 6948.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—The purpose of this study was (1) to investigate a method of demonstrating the effects of moderate anoxia on contrast sensitivity at low levels of illumination and (2) to measure differences in contrast sensitivity at low levels of illumination at simulated altitudes of 10,000, 12,000, and 15,000 ft. with and without supplemental oxygen. Appendices present apparatus, including the Luckiesh-Moss Low-Contrast Chart, and statistical analysis of the data.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4531. **Révész, G. De geestelijke activiteit bij de waarneming.** (The activity of the mind in perception.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1941, **34**, 293–303.—Images of the external world are the products of numerous experiences and knowledge which complete and modify sensory experiences. The mind creates the form; our sensations are organized and given meaning. This "formative" activity is in large part determined by our own tendencies, by analysis and synthesis, by imagination and language. Thus, language is a contributing factor for the image which we form of the external world.—*L. Coetsier* (Ghent).

4532. **Rochester University, Institute of Optics. Aids to night vision: extension of the scotopic visibility curve to 3130 Å and to 8000 Å.** (OSRD, 1943; Publ. Bd., No. 28539.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 15. $1.00, microfilm; $1.00, photostat.—This report gives briefly the experiments conducted to determine the average scotopic visibility curve from wave length 3000 Å to wave length 8000 Å. Investigation of the exact character of the limits of visibility of the spectrum was needed because of the use of radiations of wave length close to that of the visible spectrum (normally assumed to be from 4000 Å to 7000 Å) in connection with invisible signalling, illumination, etc.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4533. **Savely, H. E., Jr. Visual disturbances following simulated ascent in the low-pressure chamber.** (AAF, ATSC Memo Rep., 1942; Publ. Bd., No. 16151.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—The visual defects described as "blurring of vision" and "restriction of visual field" are effects produced by exposure to low pressure. They are probably manifestations of aeroembolism; however, the exact mechanism by which they are produced is not known. The appendices contain reports on 14 cases of visual disturbances.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4534. **Shilling, C. W. Report on reliability test of NDRC adaptometer, model II, conducted at Submarine Base, New London, Connecticut.** (Bur. Med. Surg., 1942; Publ. Bd., No. 22967.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 2. $0.50, microfilm; $1.00, photostat.—Scores are given for 2-day tests on 19 subjects. Results indicated that the equipment yielded data which were satisfactorily reliable.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4535. **Stevens, S. S. The science of noise.** *Atlant. Mon.*, 1946, **178**, 96–111.—The author first briefly describes the construction of the psycho-acoustic laboratory at Harvard University and then discusses the sensitivity of the ear and the use of some methods developed during the war for recording the amplification in the ear canal. Parts of the psycho-acoustic research program during the war are summarized, including (1) sound-proofing of aircraft, (2) elaborate amplification equipment for battle noise indoctrination, (3) attempts to determine the hazards of exposure to loud noises, and (4) rehabilitation of the deaf.—*C. G. Mueller* (Columbia).

4536. **U. S. Bureau of Medicine and Surgery. A report on the test-retest reliability of the Admiralty Mark I adaptometer.** (Publ. Bd., No. 23044.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—Tests at the U. S. Submarine Base, New London, Conn., are described. Results indicate that the reliability of scores on the Admiralty Mark I adaptometer made by the 27 subjects tested is somewhat lower than that of those made by comparable subjects on other adaptometers, though higher than British population on which it was standardized.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4537. **U. S. Bureau of Medicine and Surgery. A report on the test-retest reliability of the Wright**

adaptometer. (Publ. Bd., No. 23048.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—This report on the test-retest reliability of the Wright adaptometer indicates that this instrument is unacceptable though extremely easy to use. The distribution of test and retest scores is shown.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4538. **U. S. Submarine Base, New London, Conn., Medical Research Laboratory. A report on the test-retest reliability of the Miles four-plaque adaptometer.** (Bur. Med. Surg., Publ. Bd., No. 22989.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—This adaptometer is a simplified arrangement for the direct presentation in varying positions of rotation of 4 self-luminous stimuli which vary in brightness over a total range of .9 log $\mu\mu$L units. The results indicate that the test-retest reliability of scores made on this adaptometer is lower than that of scores made by comparable subjects on other adaptometers.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4539. **Van Lear, G. A., Jr. A system of photometry for the near infrared.** (OSRD, 1943; Publ. Bd., No. 27346.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 21. $1.00, microfilm; $2.00, photostat.—A system is suggested for the measurement of near-infrared radiation and for expressing the relevant properties of sources, filters, detectors, etc. It was found convenient to have this system tied to the ordinary system of visual photometry in such a way that (1) the visual concepts and terminology are carried over with preservation of interrelationships, and (2) the orders of magnitude of analogous quantities are the same in each system for tungsten-lamp sources. It was known that a tungsten lamp which emits a certain number of lumens of visible light flux will emit (at least roughly) the same number of infralumens of near-infrared radiation flux. In this report, the hololumen, infralumen, and the amplified infralumen systems are discussed. All 3 systems will extend over as large a range of concepts as that covered by ordinary photometry.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4540. **Veneklasen, P. S., & Rudmose, H. W. A thermal noise generator for acoustical measurements.** (OSRD, 1945; Publ. Bd., No. 19810.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $0.50, microfilm; $1.00, photostat.—Many acoustical measurements require the use of a broad noise spectrum. Available sources, while quite satisfactory for many applications, show considerable variability of output and are not satisfactory for certain types of experiments. A noise source has been developed which is suitable for precise acoustical measurements. The generator uses noise due to thermal agitation of electrons within a conductor. Amplifier characteristics and design features are described. Schematic diagram and photographs of the experimental model are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4541. **Verplanck, W. S. The effects of paredrine on night vision test performance.** (Bur. Med. Surg., 1944; Publ. Bd., No. 23049.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, photostat.—Experimental procedures and findings are described. The results of adaptometer tests indicate that the use of the mydriatic drug, paredrine, is associated with improved performance on tests of night vision. This improvement is statistically significant.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4542. **Verplanck, W. S. Comparative study of adaptometers.** (Bur. Med. Surg., 1942; Publ. Bd., No. 23050.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 34. $0.50, microfilm; $3.00, photostat.—An extensive experimental test was made on the following adaptometers: the NDRC model II-A, the self-luminous telesilhouette, and the Hecht-Shlaer adaptometer as revised at the U. S. Submarine Base, New London, Conn. The data obtained permit comparison of the 3 instruments with respect to test-retest reliability and, for the first time, clearly indicate the amount of variability which might be expected in the night vision of the individual. Intercorrelation among the instruments are presented. Blueprints of the general layout of the night-vision testing laboratory are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4543. **Wiener, F. M., & Ross, D. A. The pressure distribution in the auditory canal in a progressive sound field.** *J. acoust. Soc. Amer.*, 1946, 18, 248.—Abstract.

[See also abstracts 4429, 4472, 4479, 4556, 4557, 4566, 4569, 4570, 4581, 4604, 4669, 4713, 4735, 4737, 4738, 4739, 4740, 4742, 4745, 4758, 4759, 4760, 4765, 4791, 4792, 4793, 4839, 4840, 4841, 4847, 4850, 4855, 4858, 4872, 4875, 4893.]

LEARNING, CONDITIONING, INTELLIGENCE

(incl. Attention, Thought)

4544. **Cook, T. W. Repetition and learning. III. Memory and thought.** *Psychol. Rev.*, 1946, 53, 214–224.—This discussion is concerned with "the most distinctive characteristic of the memorizing process, the faithful reproduction . . . of the original experience in the absence of the stimuli." The discussion of memory is concerned with absence of the stimulus, organization of material beyond the memory span, and rote memorizing; the discussion of thought, with the material of thought and the order and succession of thoughts. "Memorizing aims at retention and reproduction of selected aspects of the psychological field, without the original stimuli. Thinking involves other varieties both of constancy and change, in that its end-result is to some degree novel, and that in many cases trial and error intro-

duces repetition during the pre-solution period." 17 references. (See also **18: 1653; 20: 79.**)—*M. A. Tinker* (Minnesota).

4545. **Halstead, W. C. A power factor (P) in general intelligence: effects of lesions of the brain.** *Arch. Neurol. Psychiat., Chicago*, 1946, **56**, 234–235. —Abstract and discussion.

4546. **Leeuwe, J. de. Labyrinthproeven met mensen.** (Maze tests with humans.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1942, **35**, 131–136.—With the use of a small maze, the author has noted that subjects fall into the following classes: (1) those who work intelligently, forming general ideas of the maze, gaining preliminary orientation and visual representation; and (2) those who worked more mechanically, proceeding step by step in their orientation and relying heavily upon tactual cues. The former need fewer trials in order to master the problem. Later the maze was reversed, and it was discovered that original learning made itself felt only after the subject had run a portion of the reversed maze. Conscious recall and unconscious recall were often confused.—*R. Piret* (Liége).

4547. **Leroux, E. Note sur quelques faits singuliers concernant les erreurs relatives à la mémoire et à l'oubli.** (Note on some odd facts regarding errors relative to memory and forgetting.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 4/6, 281–285.—Three examples of forgetting or absent-mindedness are presented and discussed.—*E. P. Johnson* (Brown).

4548. **Lindsley, D. B., & others. Experiments in training radar operators in visual code reception.** (OSRD, 1945; Publ. Bd., No. 18335.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 19. $0.50, microfilm; $2.00, photostat.—According to a new program, radar operators will be required to read International Morse Code presented visually. The Bainbridge experiment showed that radar operators trained in code reception on blinker lights transferred readily to reception of code on oscilloscopes. (See also **20:** 4550.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4549. **Lindsley, D. B., & others. Use of the PPI flash-reading trainer in training navy search-radar operators.** (OSRD, 1945; Publ. Bd., No. 18336.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—The following generalizations and recommendations are made: (1) The PPI Flash-Reading Trainer (see **20:** 4822) provides standardized scope reading situations which can be scored accurately and objectively. (2) The best use of the trainer is obtained when the scope markings are made to simulate the bearing and range scales of an actual radar. (3) Significant increases in scope reading ability occur with training by the Flash-Reading method. (4) Both individuals and classes may be differentiated reliably by means of the trainer scores. (5) Evidence was obtained that poorer scores are made on the trainer by classes which are poor in operating actual radar gear. (6) Training in battlephone procedure and reporting can be co-ordinated closely with the scope reading training in a way that duplicates many of the elements of the combat situations. (7) Maximum use of the trainer is secured when it is used as a selection device for eliminating poor scope readers and as a training device for giving concentrated practice in PPI reading.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4550. **Lindsley, D. B., & others. Factors determining accuracy of reception of oscilloscope code.** (OSRD, 1945; Publ. Bd., No. 18362.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 20. $0.50, microfilm; $2.00, photostat.—The experiments described in this report were conducted to determine the optimal code characteristics for accuracy of reading oscilloscope code. The study was designed to provide answers to the following questions: (1) With what dot-to-dash ratio can the code be most accurately read? (2) At what speed can the code be most accurately read? (3) Is there any difference in the accuracy with which width- and amplitude-modulated signals can be read? (4) How accurately can 2-, 3-, and 4-letter code groups be read? (5) Does the presentation of repeated 2-letter code cycles lead to inaccuracy of letter grouping? (6) How much retraining is required when operators skilled in auditory code reception are shifted to oscilloscope code?—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4551. **Luquet, G. H. Sur la psychologie des propositions attributives.** (The psychology of attributive propositions.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 4/6, 185–230.—Propositions and logical procedures are discussed with respect to their utility in the acquisition or affirmation of knowledge. —*E. P. Johnson* (Brown).

4552. **Masson-Oursel, P. Imagination, idéation.** (Imagination, ideation.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 1/3, 39–46.—Conceptualizations of such terms, built around introspectional data, fail as science.—*E. P. Johnson* (Brown).

4553. **Sanford, R. N. Age as a factor in the recall of interrupted tasks.** *Psychol. Rev.*, 1946, **53**, 234–240.—Overgeneralization from an early study on interruption seems to have pyramided with the passage of time. The study in question was concerned with the relation between age and the tendency differentially to recall completed and interrupted tasks. Repetition of the experiment by the writer led to conclusions not in harmony with the earlier report. The results from the 2 studies (see **8:** 2451; **17:** 4319) and the conclusions are examined in detail in an attempt to substantiate the writer's conclusions which are based upon results from more mature subjects than those used in the earlier study. "We must, it seems, fall back upon the explanation that the more mature subjects were goaded by their pride into remembering their failures precisely because they hoped somehow to erase them or to make up for them."—*M. A. Tinker* (Minnesota).

[See also abstracts 4566, 4666, 4704, 4807, 4829, 4884, 4901, 4929.]

MOTOR AND GLANDULAR RESPONSES
(incl. Emotion, Sleep)

4554. **Anthony, A. Leistung, Ermüdung, Übermüdung.** (Performance, fatigue, and overfatigue.) *Dtsch. med. Wschr.*, 1941, **67**, 1327–1332.—In considering voluntary activity, a distinction is made between stimulus and central excitation, between central excitation and impulsion, and between effort and performance. Capacity for voluntary performance cannot be measured precisely, for the forces of impulsion are not subject to numerical measurement. —(Courtesy *Année psychol.*).

4555. **Asdell, S. A. Comparative chronologic age in man and other mammals.** *J. Gerontology*, 1946, **1**, 224–236.—Age throughout this paper is taken as the age from conception, since the physiologic state at birth is most variable for different species. The main conclusion reached is that no general system of age equivalence can be set up covering the whole life span. This may be done for equivalent physiologic periods; but as soon as these change to a marked degree, a new set of equivalents must be established. Man fits less well into any of the systems examined than any other species because of the many peculiarities in his physiologic behavior. 62-item bibliography.—*R. W. Beebe* (Washington Inst. Ment. Hyg.).

4556. **Best, F. Die vom Grosshirn ausgelösten gleichsinnigen Blickbewegungen.** (Unidirectional eye movements governed by the hemispheres.) *v. Graefes Arch. Ophthal.*, 1941, **144**, 25–40.—A case is described of left hemianopia with a paralysis of eye movements toward the left, accompanied by a localized softening in the right calcarine region. This region is probably involved in eye movements; however, hemianopia is seldom accompanied by a motor disorder of any duration, probably due to a functional compensation.—(Courtesy *Année psychol.*).

4557. **Birren, J. E., & others. Effects of anoxia on performance at several simulated altitudes.** (Bur. Med. Surg., 1945; Publ. Bd., No. 23054.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 19. $0.50, microfilm; $2.00, photostat.—Twenty-nine subjects were given "flights" at one or more simulated altitudes, (10,000, 14,000, 15,000, and 18,000 ft.) in a low-pressure chamber. The subjects were given a cycle of tests (critical flicker frequency, perimetry of the visual field with a red target, and body sway) once at sea level before "ascent," 5 times during an hour under the anoxic conditions, and once more immediately upon return to sea level. Mean test performance was significantly poorer ($P < 1\%$) at all altitudes studied than at sea level, except body sway at 10,000 ft. Test performance showed the expected deterioration with increasing altitude, although decrement in mean performance under most conditions was less than one standard deviation of the distribution of measurements at sea level. Mean performance during the hour at 18,000 ft. suggests progressive deterioration on all 3 tests. Individual responses to the anoxic conditions were variable with some subjects showing better performance at higher than at lower altitudes. Deterioration in performance (either absolute or relative) under anoxic conditions was essentially uncorrelated among the 3 tests. Residual effects of the hour under the anoxic conditions were not marked when measured within 15 min. of the return to sea level. The performance of subjects who collapsed or who were in imminent danger of collapse during their last test before breathing oxygen was compared with their initial sea-level measurements. The comparison indicated that body sway had increased significantly more in subjects manifesting signs of collapse than it had for the mean of a group of subjects at 18,000 ft.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4558. **Blood, F. R., Elliott, R. V., & D'Amour, F. E. The physiology of the rat in extreme anoxia.** *Amer. J. Physiol.*, 1946, **146**, 319–329.

4559. **Brugger, H. Über eine neuartige Methode zur Registrierung der Nasenatmung.** (On a new method of recording nasal respiration.) *Z. Sinnesphysiol.*, 1940, **68**, 70–72.—A very light fan is so fastened to the nose that the lightest breath will activate it. The rotation induces a flow of electricity which is recorded oscillographically.—(Courtesy *Année psychol.*).

4560. **Carlson, W. S., & Tinker, M. A. Visual reaction-time as a function of variations in the stimulus-figure.** *Amer. J. Psychol.*, 1946, **59**, 450–457.—The purpose of the present study was to determine the relationship between peripheral visual acuity and certain aspects of flying aptitude. *S* was required to respond by a choice-reaction to a ring broken in any one of 4 positions. Rings subtending 94°, 115°, and 124°, with breaks of 2°, 7°, and 14°, were used at brightness levels of .02, .05, and .10 footlamberts. Each *S* was tested on 9 of the possible 27 combinations; 48 *S*s were used. The data show that (1) reaction time increases in proportion to the increase in the size of the visual angle subtended by the stimulus-ring; (2) reaction time varies inversely with the size of the break to be discriminated; (3) changing the illumination produces a statistically nonsignificant curvilinear effect on reaction time; (4) a marked practice effect is apparent within a single 50-min. session; and (5) reaction time depends on the quadrant in which the stimulus is located, the order being (from hardest to easiest) lower left, lower right, upper right, and upper left.—*D. E. Johannsen* (Tufts).

4561. **Chorus, A. De diagnostische waarde van het z. g. persoonlijke tempo.** (The diagnostic value of the so-called personal rhythm.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1942, **35**, 173–179.—After having mentioned several definitions given by other psychologists about personal rhythm, the author cites his own experiments (motor and perceptive tests). Knowledge of the personal rhythm of a subject in simple and well-defined forms of behavior permits a reasonably accurate estimate of his

maximum motor speed and the variability of his maximum rhythm, but Chorus denies the existence of a general personal rhythm, that is to say, a constant personal preference for a certain speed in all, or even some, forms of behavior. He has found, however, that children between the ages of 6 and 8 prefer a constant rhythm in simple tasks. Unstable children on the contrary are rarely constant, and this difference permits precise diagnosis of chronic instability and concomitant character maladjustments.—*R. Piret* (Liége).

4562. **Clark, G. Prepubertal castration in the male chimpanzee with some effects of replacement therapy.** *Growth, Ithaca,* 1945, **9,** 327–339.—"The weight curve of a prepubertally castrate chimpanzee tends to approach that of the female chimpanzee. This is especially true after the ninth year. There is no overgrowth of the long bones in the prepubertally castrated male chimpanzee. The growth of the penis in the prepubertally castrate chimpanzee equals that of the intact animal. The development of sexual behavior in the prepubertally castrate chimpanzee is similar to that in the normal animal. Copulation records under estrogenic therapy were similar with those in control periods. Short periods of treatment with androgens have no effect upon the weight of the prepubertally castrate chimpanzee but ejaculation occurs and there is a decrease in the number of copulations per hour."—*V. Nowlis* (Iowa).

4563. **Clinton, M., Jr., Thorn, G. W., & Davenport, V. D. Studies on altitude tolerance: 2. Studies on normal human subjects—effect of repeated short exposures to reduced atmospheric pressure.** *Johns Hopk. Hosp. Bull.,* 1946, **79,** 70–89.

4564. **DeJong, R. N. Nystagmus: an appraisal and a classification.** *Arch. Neurol. Psychiat., Chicago,* 1946, **55,** 43–56.—The author presents a classification and description of the various types and forms of nystagmus, including induced, pathologic, and certain miscellaneous varieties of nystagmus. An extensive bibliography is included.—*K. S. Wagoner* (DePauw).

4565. **Fischer, A. L. Charakteristika der seelischen Gesundheit im Alter.** (Characteristics of mental health in old age.) *Gesundh. u. Wohlf.,* 1945, **25,** 197–204.—[Abstracted review; original not seen.] Physical and mental decline do not always proceed at the same rate; often mental vigor persists after physical infirmities have set in. A dynamic dualism may then develop. The mastery of progressive aging and its consequences is a function of the individual's attitude toward life and the manner in which experience has taught him to adjust. Research is needed to determine the specific characteristics of aging in individuals of different types and temperaments.—*R. G. Kuhlen* (Syracuse).

4566. **Gates, R. R. Human genetics.** (2 vol.) New York: Macmillan, 1946. Pp. xvi + 1518. $15.00.—After an initial presentation of the general principles of heredity, the experimental evidence for inheritance is examined in connection with a wide variety of problems, including the following which have direct psychological importance: color blindness, night blindness, deafness, sexual and intersexual conditions, twins, variations and defects of the nervous system, mental defects, normal mental differences (including violent temper, musical ability, race differences, and handedness), and singing voices. Bibliography.—*W. S. Hunter* (Brown).

4567. **Griffin, D. R. Supersonic cries of bats.** *Nature, Lond.,* 1946, **158,** 46–48.

4568. **Horvath, S. M., & Shelley, W. B. Acclimatization to extreme heat and its effect on the ability to work in less severe environments.** *Amer. J. Physiol.,* 1946, **146,** 336–343.

4569. **Imus, H. A., & Brogden, W. J. Distributions of measures of interpupillary distances.** (OSRD, 1943; Publ. Bd., No. 27304.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $1.00, microfilm; $1.00, photostat.—Distributions of measures of interpupillary distances are given in both tabular and graphic form for 6,553 white soldiers and 127 Negro soldiers examined at the Stereoscopic Testing Center, Fort Eustis, Virginia, during the period from June 1, 1942, to February 1, 1943. The average interpupillary distance of the Negro population is reliably larger than that of the white population, as indicated by a critical ratio of 12.17. The distributions may be subject to a sampling error at the shorter measures of interpupillary distance, since no soldiers less than 5′6″ in height were examined.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4570. **Kappauf, W. E., & Brogden, W. J. An instrument for the measurement of interpupillary distance.** (OSRD, 1943; Publ. Bd., No. 27303.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $1.00, microfilm; $1.00, photostat.—The instrument can be constructed readily from a Shuron interpupillometer and a piece of front surface mirror mounted 6 in. in front of it. When used as described here, its errors of measurement are probably less than half as large as the errors of another comparable interpupillary measurement device. Interpupillary distance has been the measurement for setting the oculars of the stereoscopic height finder, and the instrument described is in routine use at Camp Davis.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4571. **Karpovich, P. V., & Ronkin, R. R. Oxygen consumption for men of various sizes in the simulated piloting of a plane.** *Amer. J. Physiol.,* 1946, **146,** 394–398.

4572. **Kramer, K., & Gauer, O. Über die Regelung der Atmung bei Muskelarbeit.** (On the regulation of breathing in muscular work.) *Pflüg. Arch. ges. Physiol.,* 1941, **244,** 659–686.—After section of the medulla in cats and rabbits, unconscious muscular work was performed in response to electrical stimulation. Blood pressure was lowered, and alveolar CO_2 tension was little affected (the respiration volume has a linear relation to this

tension). Nothing indicated the presence of substances for exciting respiration. The lack of agreement of these data with results in humans suggests that, in the latter, neural processes play a significant role, contrary to the opinion of Goppert and Zuntz (1888).—(Courtesy *Année psychol.*).

4573. **Leeuw, G. v. d. Grenzen van menschelijk gedrag.** (Limits of human behavior.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1942, **36**, 76–79.—This article is a commentary on Plessner's book, *Lachen und Weinen*, 1941. According to Plessner, laughter and crying are extreme cases of behavior. They serve to express a crisis in which man loses the power of seeing himself objectively, as with an ego which dominates the body.—*R. Piret* (Liége).

4574. **Lindner, R. Willkürlicher Nystagmus bei taubstummen Kindern.** (Voluntary nystagmus in deaf-mute children.) *Z. Sinnesphysiol.*, 1941, **69**, 121–157.—One third of the children in the Leipzig School for Deaf-Mutes could voluntarily demonstrate nystagmus movements for 5–8 sec. These movements were principally horizontal, with a frequency of 15–19. These observations suggest that the auditory area normally exercises an inhibitory influence upon the frontal oculomotor region.—(Courtesy *Année psychol.*).

4575. **Loucks, R. B. An evaluation of various psychological performance tests for altitude chamber research.** (AAF, Sch. Aviat. Med., 1944; Publ. Bd., No. 15515.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 30. $0.50, microfilm; $2.00, photostat.—An experimental technique has been developed by means of which decrements in psychological performance due to a simulated altitude of 15,000 ft. can be detected within a single experimental session. The technique eliminates the extensive preliminary training which has commonly been employed in previous studies. A comparison was made of 4 psychomotor pursuit tests, differing in complexity at 18,000 ft. simulated altitude. One test registered a deterioration in performance in 90% of the group. The next best test showed a decrement in only 56% of the subjects. An appendix contains tables and copies of the tests.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4576. **Lovelace, W. R. Summary of German aviation medical research.** (AAF, ATSC Memo Rep., 1946; Publ. Bd., No. 27062.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 49. $1.00, microfilm; $4.00, photostat.—In this summary of developments in German aviation medicine are covered (1) the tolerance of humans to accelerative and decelerative forces of magnitudes from 2 g to more than 6 g and (2) parachute design to reduce opening shock. In addition, the topics of physiological effects of pulsating pressure wave, of low temperature and rapid heat treatment, of low barometric pressure, and human engineering are discussed. The appendix contains reports covering the first 2 subjects mentioned and a general bibliography on all the topics mentioned above.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4577. **O'Connor, W. J. The effect of section of the supraoptico-hypophyseal tracts on the inhibition of water-diuresis by emotional stress.** *Quart. J. exp. Physiol. cognate med. Sci.* 1946, **33**, 149–161.—The amount of antidiuretic hormone released from the posterior lobe of the pituitary during emotional stress is greatly reduced after section of the supraoptico-hypophyseal tracts. Only about 5% of the amount liberated in response to the same stimulus before tract section is released after the operation. There is no difference in the size of the residual inhibition of urine flow by emotional stress after tract section and after removal of the posterior lobe. —*P. Kellaway* (McGill).

4578. **Oliveira Estevez, J. d'. Les éléments constituants du temps de réaction psychomotrice.** (The constituent elements of psychomotor reaction time.) *Rev. méd. lat.-amer.*, 1940, **25**, 667–688.—Noting that the measurement of reaction time was of little value in pilot selection, the writer suggests that a division be made into sensory reaction time and motor reaction time. This may be accomplished by instructing the subject to interrupt and restart a stimulus tone as quickly as possible. A number of possibilities are outlined as to combinations of response.—(Courtesy *Année psychol.*).

4579. **Parode, G. W. Ermüdung.** (Fatigue.) *Dtsch. med. Wschr.*, 1941, **67**, 1333–1337.—The neurovegetative system and the endocrine glands exert an influence upon the onset of fatigue; for example, fatigability is marked in cases of hypofunction of the hypophysis or adrenals, with probably an interaction with the sodium-potassium equilibrium of the blood. Ultraviolet radiation, injection of male hormone, and adequate vitamin content of the diet are important factors in combatting fatigue. The principal effect of training is to conserve energy by the elimination of unnecessary movements.—(Courtesy *Année psychol.*).

4580. **Riley, R. L., & others. Hyperventilation breathing air as a means of maintaining consciousness at 25,000 feet.** (Bur. Med. Surg., 1944; Publ. Bd., No. 22961.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $0.50, microfilm; $1.00, photostat.—Fifty male subjects were instructed briefly in the procedure of hyperventilation and then were exposed to a pressure-altitude of 25,000 ft. in the low-pressure chambers while breathing air. Twenty-four (48%) remained "conscious" for 15 min.; 26 (52%) required added oxygen before 15 min. had elapsed. The minute respiratory volume approximated 20 to 30 liters. Many symptoms of acapnia were noted; none were serious.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4581. **Rudmose, H. W., Clark, K. C., Carlson, F. D., Eisenstein, J. C., & Walker, R. A. The effects of high altitude on speech and hearing.** *J. acoust. Soc. Amer.*, 1946, **18**, 250–251.—Abstract.

4582. **Schwarz, F. Eine einfache Methode zur optischen Registrierung des Nystagmus.** (A simple method for optical recording of nystagmus.) *Z. Sinnesphysiol.*, 1941, **69**, 117–120.—This technique involves the photographing of the corneal image of a blue light source (to which the adapted eye has little sensitivity).—(Courtesy *Année psychol.*).

4583. **Smith, F. V. Instinct in the explanation of behavior.** *Aust. J. Psychol. Phil.*, 1945, **23**, 1–34.—The influence of McDougall's theory of instincts does not diminish, although several modifications are needed in interpreting and utilizing it. The chief modification needed in reformulating the essential theory is a reduction in the number of postulated separate instincts. Recognition should also be given to the theorist's own awareness of the basic significance of a generic hormic urge. 50-item bibliography.—*H. D. Spoerl* (American International College).

4584. **Thorn, G. W., Clinton, M., Jr., Farber, S., & Edmonds, H. W. Studies on altitude tolerance: 1. Studies on normal rats—effect of repeated short exposures to reduced atmospheric pressure.** *Johns Hopk. Hosp. Bull.*, 1946, **79**, 59–69.

4585. **Uttam Singh, T. K. Genesis of nystagmus.** *J. Indiana med. Ass.*, 1946, **15**, 263–268.

4586. **Vandervael, F. Notions d'analyse des mouvements du corps humain.** (Analysis of the movements of the human body.) Liége: Desoer, 1944. Pp. 140.—The author's aim is to study the function of articulations and muscles in human movement. This study is of interest to the medical profession, physical education instructors, and industrial psychologists. The first portion of the book is devoted to the application of general mechanical principles to movement; the second portion, to the study of the movements of primary articulations; and the third, to an analysis of attitudes and frequency of movement.—*R. Piret* (Liége).

[**See also abstracts 4469, 4471, 4486, 4503, 4522, 4530, 4533, 4541, 4587, 4606, 4607, 4625, 4651, 4689, 4700, 4726, 4745, 4751, 4752, 4753, 4758, 4760, 4763, 4780, 4792, 4836.**]

PSYCHOANALYSIS, DREAMS, HYPNOSIS

4587. **Agoston, T. The fear of post-orgastic emptiness.** *Psychoanal. Rev.*, 1946, **33**, 197–214.—Some patients perceive the absence of sexual feelings following orgasm as an emptiness, a void, a loss of self from which they must protect themselves. Various types of defenses against this feeling are described. In the sex act, the patient may withhold the ejaculation or may ejaculate hurriedly or prematurely; he may arrange the situation so as to give as little attention as possible to the sex act itself in order to reduce his pleasure and hence his later feeling of emptiness. In their general behavior, patients may also show defensive behavior such as overeating at all times or immediately after intercourse, keeping themselves continually upset emotionally so as to feel alive while avoiding the situation feared, or concentrating all their attention on the reactions and feelings of others so as to be able to ignore their own feelings. Benzedrine sulphate seems to aid in the analysis of such patients, since the drug gives the patient a temporary feeling of fullness and hence makes him feel more secure.—*L. B. Heathers* (Univ. Washington).

4588. **Blanchette, A. The philosophy of psychoanalysis.** *Rev. Univ. Ottawa*, 1946, **16**, Sect. spéc., 28–57.—Psychoanalysis is a medical psychology without adequate roots in or connections with scientific medicine or scientific psychology. Its philosophy, in which theory and therapy are each a part of the other, is an aberrant materialism. It rightly emphasizes the importance of childhood, the irrational phases of man's psychic life, the psychogenesis of the neuroses, the scope and influence of the human psyche as a whole, the necessity of considering man as a complete unity, and the human quest for happiness. But every one of its qualities is warped by its *Weltanschauung*. One immediate conclusion of the identification of theory and therapy in psychoanalysis is the inference that since the theories of psychoanalysis are themselves so insecure, the therapy itself will also be deficient.—*W. L. Wilkins* (Notre Dame).

4589. **Jacobson, E. The effect of disappointment on ego and superego formation in normal and depressive development.** *Psychoanal. Rev.*, 1946, **33**, 129–147.—Whether losing one's illusions about the omnipotence of one's parents has a destructive or constructive effect upon the child depends on the stage of development the child has reached at the time the disappointments begin. The child who has already developed through the Oedipus period uses this experience to increase his realistic evaluation of the world. With a child who has not reached this stage, the devaluation of the parent includes a devaluation of the child, so that the child becomes a pessimistic, depressed person who is oversensitive to narcissistic injuries to himself. At the same time, this early disillusionment may lead to an earlier formation of the superego which causes the development of an overrigid, demanding superego. A case history of a depressed patient is used to illustrate this theory.—*L. B. Heathers* (Univ. Washington).

4590. **Karpman, B. Dream analysis of a constitutional psychopath: toward the problem of differential dream analysis.** *Psychoanal. Rev.*, 1946, **33**, 215–236.—Further dreams of a psychopath are described (see **20**: 2359). These are the patient's few anxiety and guilt dreams and his dreams of prison and watches. The anxiety dreams are primarily fear reactions rather than true anxiety reactions. Guilt seldom gets beyond the point of an awareness of not living up to expectations. The dreams as a whole follow the patient's life pattern; they are superficial, unimaginative, matter-of-fact dreams, quite unlike the dreams of neurotics or normals.—*L. B. Heathers* (Univ. Washington).

4591. **Lorand, S. Technique of psychoanalytic therapy.** New York: International Universities Press, 1946. Pp. viii + 251. $3.50.—The basic principles of psychoanalytic therapy, the technique of psychoanalysis, and the general and specific problems encountered in clinical practice are briefly presented by the author. 203-item bibliography.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4592. **McCurdy, H. G. The history of dream theory.** *Psychol. Rev.*, 1946, 53, 225–233.—The writer's aim is to supplement the historical section of Freud's work on dream theory by a more detailed examination into some of the ancient writers. Material is cited from Aristotle, Plato, Lucretius, Artemidorus, and certain authors of the early Christian era. Although medieval works were consulted, little of note was discovered that goes beyond the views of the ancients. Historically, modern dream theory, particularly that of Freud, is in most respects closer to Aristotle and Plato than it is to the later writers examined. The atomism of Lucretius is remote from modern speculation, as is the standpoint of Synesius with his Neo-Platonic emphasis upon the creativity of the soul.—*M. A. Tinker* (Minnesota).

4593. **Macfadyen, W. A. Some 'water divining' in Algeria.** *Nature, Lond.*, 1946, 157, 304–305.—The author presents the forecasts of 3 water-diviners (dowsers) and the relevant geological data. "It is difficult to appreciate any significant correlation between the information purported to be given by the dowsers in their forecasts and the facts later established. . . ."—*A. C. Hoffman* (Tufts).

4594. **Montani, A., & Pietranera, G. First contribution to the psycho-analysis and aesthetics of motion-picture.** *Psychoanal. Rev.*, 1946, 33, 177–196.—The need for motion pictures is an original and natural one. Images, especially visual ones, are the normal means for expressing unconscious thoughts. In pure cinema, one would communicate primarily by images; the emphasis would be on the imagery, not on the literary plot. In such pictures, the imagery would follow the same regressive, prelogical, indirect ways as the imagery in dreams; hence it would also use symbolism, condensation, changes in time and space relations according to the significance of the material being presented, etc. The article also discusses the bases for the emotional appeal of motion pictures.—*L. B. Heathers* (Univ. Washington).

4595. **Rascovsky, L. Sueños adecuados para la divulgación del conocimiento onírico.** (Dreams that promote knowledge of dreams.) *Rev. Psicoandl., B. Aires*, 1946, 3, 673–684.—Several examples are given of dreams of the same patient, interpreted through associations. Condensation and number symbolism are strikingly illustrated.—*H. D. Spoerl* (American International College).

4596. **Sperling, M. Psychoanalytic study of ulcerative colitis in children.** *Psychoanal. Quart.*, 1946, 15, 302–329.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4597. **Tallaferro, A. Fragmentos del analisis de un neurotico con mecanismos multiples.** (Portions of the analysis of a neurotic with multiple mechanisms.) *Rev. Psicoandl., B. Aires*, 1946, 3, 685–730.—A case study is presented of a patient manifesting hysterical, epileptic, and schizoid symptoms, with summary accounts of analytical sessions.—*H. D. Spoerl* (American International College).

4598. **Wegrocki, H. J. Masochistic motives in the literary and graphic art of Bruno Schultz.** *Psychoanal. Rev.*, 1946, 33, 154–164.—Bruno Schultz's masochistic trends are illustrated through his writings and drawings.—*L. B. Heathers* (Univ. Washington).

[See also abstracts 4415, 4633, 4672.]

FUNCTIONAL DISORDERS

4599. **Alves, C. R. Medicina psicossomática e suas relaçoes com a biotipologia.** (Psychosomatic medicine and its relations to biotypology.) *Impr. méd., Rio de J.*, 1946, 21, 52.

4600. **Annell, A. L. Incorrect diagnosis of mental deficiency and its consequences.** *Acta paediat., Stockh.*, 1945, 32, 95–109.—Cases are cited in which infants diagnosed as mentally deficient have later evidenced a normal mental development. Such erroneous diagnoses, almost always made before the child has reached the age of 1 year, are not uncommon. Errors of this kind, which have far more serious psychic consequences for the mother than for the child, are frequently due to a mistaking of physical defects for mental defects. Especially frequent is this error when the infant has features resembling mongolism. No safe diagnosis of a child's intelligence can be made before 1 to 2 years of age.—*F. C. Sumner* (Howard).

4601. **[Anon.] Nomenclature of psychiatric disorders and reactions.** *J. clin. Psychol.*, 1946, 2, 289–296.—Terms are given which are now used by the Army to designate psychiatric disorders and reactions as listed in the *War Department Technical Bulletin, Medical 203.*—*L. B. Heathers* (Univ. Washington).

4602. **Bergler, E. The danger neurotics dread most: loss of the "basic fallacy."** *Psychoanal. Rev.*, 1946, 33, 148–153.—The basic fallacy of the neurotic is that his condition is a direct result of his environment; he himself has played no role in its development. The neurosis is not cured until this fallacy is given up. Examples are given to illustrate various patients' attempts to retain their basic fallacies.—*L. B. Heathers* (Univ. Washington).

4603. **Bijou, S. W. [Ed.] The psychological program in AAF convalescent hospitals: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 18679.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 363. $4.00, microfilm; $25.00, photostat.—The mission of the convalescent hospital is convalescent orientation, initial evaluation, progress evaluation, counseling, and research

on psychological problems associated with convalescent activities. Psychological research included developing criteria against which tests and procedures could be evaluated, constructing and validating tests, and judging effectiveness of the procedures. Tests and measurements are discussed. Examples are given in Appendix C, and reports and forms in Appendix A.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4604. **Birren, F. Color and psychotherapy.** *Mod. Hosp.*, 1946, **67**, 57–58.—The author urges that the growing number of experimental findings as to the psychological influence of color and brightness on human beings should be applied to the interior decoration of hospitals. Rightly used in hospitals, "color pleases the patient, creates moods favorable to recovery and generally improves morale and mental attitude." Elimination of glare, inadequate levels of illumination, and severe contrasts can reduce eyestrain and discomfort of surgeons in operating room as well as of the bedridden. Severe brightness contrasts between ceiling, floor, walls, and furnishings should be avoided. As Luckiesh has shown, brightness ratios smaller than 1 to 5 are desirable. Light colors are to be used rather than dark, and attention is drawn to the appropriate use of warmth and coolness of colors.—*F. C. Sumner* (Howard).

4605. **Craighill, M. D. A psychological approach to social hygiene for women.** *J. soc. Hyg.*, 1946, **32**, 199–201.

4606. **Davison, C., & Demuth, E. L. Disturbances in sleep mechanism: a clinicopathologic study. III. Lesions at the diencephalic level (hypothalamus).** *Arch. Neurol. Psychiat., Chicago*, 1946, **55**, 111–125.—An investigation of 17 cases of pathologic sleep revealed lesions indicating direct involvement of the hypothalamus in 14 cases. Other conditions frequently noted included increased intracranial pressure, ocular manifestations such as diplopia, ptosis, nystagmus, etc., endocrine disturbances, hypothermia and hyperthermia. The authors conclude that "from this series of cases of diencephalic lesions, it may be concluded that damage to the hypothalamus, especially the posterior part of the lateral hypothalamic area and of its various pathways bilaterally, causes somnolence. The influence of the thalamus or the basal ganglia on this disturbance cannot be completely ruled out."—*K. S. Wagoner* (DePauw).

4607. **Davison, C., & Demuth, E. L. Disturbances in sleep mechanism: a clinicopathologic study. IV. Lesions at the mesencephalometencephalic level.** *Arch. Neurol. Psychiat., Chicago*, 1946, **55**, 126–133. Eight cases of pathologic sleep associated with brain lesions are reported in which there was involvement of the mesencephalon and metencephalon. Certain ocular manifestations and increased intercranial pressure were present in all cases. The authors conclude that, "from this series of cases, it can be assumed that lesions of the ascending and descending hypothalamic pathways of the mesencephalon (mamillary peduncle and mamillotegmental tract) and some of the vegetative nervous centers in the brain stem result in disturbances of the sleep mechanism."—*K. S. Wagoner* (DePauw).

4608. **Doll, E. A. Practical implications of the endogenous-exogenous classification of mental defectives.** *Amer. J. ment. Def.*, 1946, **50**, 503–511.—The consideration of etiology should be an integral part of the differential diagnosis of mental deficiency. The terms endogenous and exogenous offer a scheme in which the etiological considerations are incorporated with the behavior symptoms. In general, the exogenous patient reveals defects of development in addition to deficiencies, whereas the endogenous patient reveals chiefly deficiencies. Five advantages of this differentiation are listed. 33-item bibliography.—*L. LeShan* (Clark).

4609. **Durand, C. Etude clinique des diverses formes d'écho de la pensée.** (A clinical study of various forms of echoed thought.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 4/6, 231–245.—'Echo de la pensée' is defined as an illusion of duality and estrangement in the perception of inner language. There is a review of subsumed phenomena with an attempt at classification.—*E. P. Johnson* (Brown).

4610. **Estabrooks, G. H. Brain sensitization in personality disorders.** *J. gen. Psychol.*, 1946, **34**, 203–211.—Estabrooks suggests that one underlying theme or causal factor may be detected in the so-called functional mental disorders. He proposes that the brain, under certain conditions, becomes highly sensitive to stimuli and that impressions made at such times assume undue permanence and importance. Brain sensitization may be caused by strong emotion properly timed, or long-continued feelings. This thesis is discussed in relation to neurosis, psychasthenia, hysteria, hypnosis, Freudian complex, war fatigue, perversion, juvenile delinquency, and the normal personality.—*P. J. Alden* (Michigan).

4611. **Fortanier, A. H. Schets van richtlijnen voor de behandeling van psychopathen.** (Outline of indications for the treatment of psychopaths.) *Ned. Tijdchr. Psychol.*, 1942, **10**, 17–22.—Psychotherapy aims essentially at the re-education of the patient. Results of the treatment depend upon the particular therapy employed, the personality of the therapist, and the patient's psychical make-up. The psychopath is characterized by a constitutional disharmony or by insufficient development. If the patient does not believe himself to be sick, then treatment becomes more difficult. If this is the case, the therapist endeavors to objectify the patient's judgments, form his will, and develop his sense of responsibility. With emotional psychopaths, it is necessary to use compensatory influences and sublimation. With calmer types, regulatory measures are much easier to apply. Certain other secondary techniques may be used for treating special cases.—*R. Piret* (Liége).

4612. **Freyhan, F. A. Emotional vacuum and alcoholism.** *Delaware St. med. J.*, 1946, **18**, 122–125.

4613. **Fry, H. K. Neurosis and rehabilitation.** *Bull. industr. Psychol. Personnel Pract., Melbourne,*

1945, 1, 14–17.—A résumé is given of the treatment of psychiatric cases in Australian military hospitals, with a brief description of the follow-up care recommended subsequent to discharge.—*F. K. Berrien* (Colgate).

4614. **Glueck, B. [Ed.] Current therapies of personality disorders.** New York: Grune & Stratton, 1946. Pp. 296. $3.50.—These proceedings of the 34th annual meeting of the American Psychopathological Association, held in April, 1945, include the presidential address by B. Glueck; 4 papers on the modern psychiatric hospital, by D. M. Hamilton, R. H. Felix, L. Wender, and R. P. Knight; 4 papers on physiochemical techniques; 5 papers on psychotherapeutic techniques, by T. V. Moore, S. R. Slavson, H. M. Tiebout, C. Thompson, and R. M. Lindner; and 5 papers on guidance and rehabilitation techniques, by L. Bender, T. A. C. Rennie, G. G. Killinger and J. Zubin, N. W. Ackerman, and L. K. Frank.—*W. L. Wilkins* (Notre Dame).

4615. **Govindaswamy, M. V. Mental disorder in India; a review and a prospect.** *Indian J. soc. Work*, 1946, 7, 41–48.

4616. **Graham, F. K., & Kendall, B. S. Performance of brain-damaged cases on a memory-for-designs test.** *J. abnorm. soc. Psychol.*, 1946, 41, 303–314.—A 10-minute test of 15 designs, presented singly, was given to 70 brain-damaged patients and 70 institutional controls (mainly psychoneurotics). Impairment scores above a critical value were indicative of brain damage, but half of the brain-damaged cases were below the critical score, perhaps because the test minimizes the role of intelligence. Although not clearly detecting brain damage, the test may be useful in a battery, since it is independent of schooling and vocabulary.—*C. M. Harsh* (Nebraska).

4617. **Griffin, J. D. M. Adults' psychological clinic.** *Bull. Canad. psychol. Ass.*, 1946, 6, 46–47.—Abstract.

4618. **Gurevitch, M. O. [Nature of the schizophrenic process.]** *Nevropat. Psikhiat.*, 1945, 14, No. 5, 10–13.

4619. **Harms, E. Equilibrium neurosis. (Studies of occupational neuroses. No. 3).** *Dis. nerv. Syst.*, 1946, 7, 234–240.—This term refers to an occupational disease, the mental symptoms of which are the direct result of conflict arising from the monotony of a (usually professional) activity. The undertaker who is gay and boisterous after working hours, the alcoholic lawyer, and the cynical physician are examples of attempts to achieve a crude equilibrium. The cause and cure of these neuroses should be sought primarily in the sphere of social (environmental) psychiatry rather than through individual psychiatry. Because of the heavy investment of time and training, it is usually not feasible to effect a change of profession, but readjustment may frequently be brought about by showing the patient that his animosity has been projected against the whole profession rather than the disturbing secondary circumstances associated with it. Balancing the professional life of the patient against a more active and stimulating social life will often complete the adjustment.—*C. E. Henry* (Institute for Juvenile Research).

4620. **Hastings, D. W., Wright, D. G., & Glueck, B. C. Psychiatric experiences of the Eighth Air Force, first year of combat, July 4, 1942—July 4, 1943.** (OSRD, 1944; Publ. Bd., No. 1051.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 311. $3.50, microfilm; $21.00, photostat.—Psychiatric experience with combat personnel in the Eighth Air Force during its first year of operational flying is summarized. Clinical data are discussed on types of psychiatric and operational fatigue cases. The report also includes a study of successful combat personnel, methods of treatment of psychiatric difficulties, and a suggested plan for the organization of a psychiatric program in an air force. Appendix contains illustrative cases.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4621. **Hildreth, H. M. A battery of feeling and attitude scales for clinical use.** *J. clin. Psychol.*, 1946, 2, 214–221.—A short paper-and-pencil attitude scale was constructed to obtain some evidence of patients' change of attitude towards themselves and others, of the effectiveness of rehabilitation programs, and of those patients entering the hospital who would probably require special attention. The scale asks the patient to check the 1 item out of 8 or 10 given which most closely approximates his general mental state, his energy level, and his attitudes towards the future, his work, and other people. The scale itself, its method of construction, and the average scores for different hospital groups on the separate and total parts of the scale are given. Some tentative suggestions are made regarding the interpretation of the obtained scores.—*L. B. Heathers* (Univ. Washington).

4622. **Ironside, R. N., & Batchelor, I. R. C. Aviation neuro-psychiatry.** Baltimore: Williams & Wilkins, 1945. Pp. viii + 167. $3.00.—Part I of this book is concerned with the aviator's environment and the selection of candidates for military aviation; Part II, with the neuropsychiatric examination; and Part III, with neuropsychiatric disorders among aviators. "There is no mental illness peculiar to flying personnel . . ." and ". . . no peculiarly specialized knowledge is required to diagnose and treat the mental illnesses of aviators." Neuropsychiatric disorders are discussed under the headings of anxiety states, depressive states, hysterias, obsessional neuroses, psychopathic personalities, psychoses, and organic reaction types. The topics of airsickness, disturbances of consciousness in the air, neurotic visual disorders, migraine syndrome and other types of headache, and head injuries are each discussed in separate chapters. Forty-four case studies are given in detail to illustrate the various types of disorders discussed.—*A. Chapanis* (Johns Hopkins).

4623. **Jastak, J., & Gordon, G. J. Verbal polarity in dementia precox.** *Delaware St. med. J.*, 1946, 18, 131–136.

4624. **Jellinek, E. M. Phases in the drinking history of alcoholics: analysis of a survey conducted by the official organ of Alcoholics Anonymous.** *Quart. J. Stud. Alcohol*, 1946, 7, 1–88.—Analysis of questionnaires returned by 98 men suggests that there are true changes of attitudes and conducts which are contingent upon the social consequences of the excessive drinking as well as upon its physical stresses. This superimposed "neurotoid" behavior exists or it prevails over early personality conflicts in a large proportion of alcoholics, the conduct changes creating the appearance of a clinical neurosis. Study of the drinking history may reveal a group of behaviors prognostic of alcoholism in the offing; such study may yield prognostic criteria of therapeutic success. A revised questionnaire form designed to reveal more significant data is presented. —*W. L. Wilkins* (Notre Dame).

4625. **Johnson, N. A. The growing problem of old-age psychoses; an analysis of the trend in one state hospital from 1910 to 1944.** *Ment. Hyg., N. Y.*, 1946, 30, 431–450.—The enormous proportionate increase in first admissions of persons over age 65 is changing the mental hospital. County home care and boarding home care are not solutions. Special research and treatment centers in geriatrics are necessary.—*W. L. Wilkins* (Notre Dame).

4626. **Karlin, I. W. Stuttering.** *Arch. Pediat.*, 1946, 63, 23–29.—A psychosomatic theory of stuttering is presented to the effect that stuttering is due to a combination of organic and psychological factors occurring approximately at the same time. It may well be that children who have a delay in the myelinization or maturation of the cortical areas concerned with speech, if exposed to emotional stress during this negativistic period, will develop stuttering.—*R. W. Beebe* (Washington Inst. Ment. Hyg.).

4627. **Kramer, H. C. Family interrelationships and their bearing upon the development of psychotic conditions.** *Indiv. Psychol. Bull.*, 1946, 5, 35–52.—"Case histories of three groups of patients are presented where a discordant family interrelationship loaded with tension and interpersonal strife, in two of the groups combined with more or less heavy mental tainting, in the last group without apparent hereditary factors, form the background for the outbreak of the psychotic condition. . . . In all of these cases the patients were exposed to an entirely inadequate reaction made of unbalanced, hyperemotional, ill-tempered and worrisome parents who thus deprived the children of the sense of security imperatively required during their phase of immaturity. . . . It is evident that a healthy mental and emotional development can only be secured by interfamilial harmony." An inconsistent and disharmonious family interrelationship seems, if not an etiological factor in itself, to be a precipitating factor in the development of psychotic conditions.—*S. B. Sarason* (Southbury Training School, Conn.).

4628. **Luchins, A. S. A course in group psychotherapy: method, content and results.** *J. clin. Psychol.*, 1946, 2, 231–239.—A course plan for group therapy work, centered around the relationship of personality development to social forces, is outlined in detail. From the reports of the patients, social workers, and ward attendants, it appeared that such a course is of value in widening the patients' interests and in giving them some mental catharsis.—*L. B. Heathers* (Univ. Washington).

4629. **Lurie, L. A. The medical concept of feeble-mindedness.** *Amer. J. ment. Def.*, 1946, 50, 512–515.—Too much emphasis has been placed on social adequacy and intellectual adequacy in formulating our concepts of feeble-mindedness. As a result, the tendency has been to consider feeble-mindedness as a distinct clinical entity. However, it is not a clinical entity but should be considered as a symptom associated with some underlying constitutional disturbance which may be remediable. Various advantages of the use of this concept are discussed.—*L. LeShan* (Clark).

4630. **Maas, O. On the aetiology of stuttering.** *J. ment. Sci.*, 1946, 92, 357–363.—Stuttering is a pure neurosis in rare cases only, but neurotic symptoms arise in most stutterers later on. It is probably congenital in some cases; it usually starts in infancy, probably as a result of organic damage in the speech area or in speech-center association tracts; and it is observed in adults affected by a severe affection of the central nervous system.—*W. L. Wilkins* (Notre Dame).

4631. **McHarg, J. F. The mental health of submariners, with special reference to 71 cases examined psychiatrically.** *J. ment. Sci.*, 1946, 92, 343–356.—In this group referred for psychiatric study, the incidence of psychiatric illness was only 4.6% per annum relieved from full duty in submarines; only 0.3% were surveyed out of the service. It is inferred that the less stable personality does not get into the submarine service.—*W. L. Wilkins* (Notre Dame).

4632. **Moor, P. Sucht.** (Mania.) *Acta Psychol., Hague*, 1941, 5, 36–49.—The author cites child gluttony, adolescent smoking, onanism, etc. as examples of mania. He criticizes definitions of mania which have been offered by other psychologists. Mania is considered to be a gradually developing need whose satisfaction proves to be a sublimation of original wants. All needs can become mania-like when one becomes substituted for another which is not satisfied. Thus the first task of the therapist in curing mania becomes one of discovering the original nonsatisfied need.—*R. Piret* (Liége).

4633. **Moore, W. E. Hypnosis in a system of therapy for stutterers.** *J. Speech Disorders*, 1946, 11, 117–122.—Experiences are reported in using hypnosis as an adjunct in therapy with 40 stutterers. Stutterers under hypnosis were able to speak with greatly increased fluency and reported feeling greatly relaxed for some time after hypnosis. The method is recommended for learning about traumatic experiences and for permitting successful speech experiences as a foundation for self-confidence. Il-

lustrative cases are described.—*W. H. Wilke* (New York Univ.).

4634. **Pai, M. N. Personality defects and psychiatric symptoms after cerebrospinal fever in childhood: meningococcal encephalopathy.** *J. ment. Sci.*, 1946, **92**, 389–410.—Twenty-nine patients with residual neuropsychiatric symptoms after C.S.F. in early life showed instability, dependency, restriction of interests, tendencies toward invalidism; had difficulties adjusting to school routines; and complained of symptoms suggestive of an encephalopathy. Nearly all showed tendencies to neurotic breakdown under conditions of even moderate stress. —*W. L. Wilkins* (Notre Dame).

4635. **Palmer, H. D. Mental disorders of old age.** *Geriatrics*, 1946, **1**, 60–79.—The author presents the etiology, nosography, therapy, and prophylaxis of mental illnesses peculiar to the aging: senile psychosis, psychosis with cerebral arteriosclerosis, involutional melancholia, Alzheimer's disease, and Pick's disease. In addition, he endeavors to set forth the more or less normal psychology of aging which he thinks prerequisite to an understanding of mental abnormality in senescence.—*F. C. Sumner* (Howard).

4636. **Rees, J. R. "Unfit on psychiatric grounds."** *Occup. Psychol., Lond.*, 1946, **20**, 125–131.—The demands of military service are unusual and occur in addition to the stresses which result from the disruption of the accustomed civilian occupation and home ties. Although the majority are able to make the necessary adjustments, some are not able to do so, particularly those who were maladjusted in civilian life. Discharge from service for psychiatric reasons does not mean that the individual will be incapable in civilian occupations. With proper placement, treatment, guidance, and understanding, these individuals should be able to occupy useful positions in peacetime economy.—*G. S. Speer* (Illinois Inst. Tech.).

4637. **Ricca, G. Stati psichici e ricambio.** (Psychiatric states and their conversion.) *Contr. Lab. Psicol., Milano*, 1944, **12**, 536.—Abstract.

4638. **Roxon-Ropschitz, I. The act of deleting and other findings in writings of neurotics.** *Psychiatry*, 1946, **9**, 117–121.—A preliminary report is given of the meaningfulness and mechanism of deletions, unintentional drawings, and slips of the pen in illustrative examples of the writings of 4 neurotic patients.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4639. **Sadler, W. S. Modern psychiatry.** St. Louis: C. V. Mosby, 1945. Pp. xii + 896. $10.00. —The subject of "personology" is presented for the general practitioner and the specialist in 61 chapters covering personality problems, the psychoneuroses, the psychoses, and general psychotherapeutics. An appendix describes briefly the various schools of psychiatry and psychology. Specific medical therapies as well as psychological concepts adapted to the general practitioner are described.—*W. S. Hunter* (Brown).

4640. **Shakow, D. The nature of deterioration in schizophrenic conditions.** *Nerv. ment. Dis. Monogr.*, 1946, No. 70. Pp. vii + 88.—Deterioration is defined as a "functioning at a level below the subject's characteristic optimal performance due to an integral impairment of the organism rather than to such temporary or extrinsic factors as passing physical illness, fatigue, emotional disturbance, or poor external conditions for performance." Requisites for its adequate study are: "(*a*) cross-sectional group studies, (*b*) cross-sectional individual studies, (*c*) cross-sectional type studies, (*d*) longitudinal individual studies, and (*e*) longitudinal type studies." A report is then given of the methods, techniques, and findings in relationship to deterioration of a cross-sectional study of a group of 25 male schizophrenic patients selected from a larger group studied 15 years previously, with comparable data for comparison drawn from that larger group and other groups. 85-item bibliography.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4641. **Sheehan, V. M. Rehabilitation of aphasics in an army hospital.** *J. Speech Disorders*, 1946, **11**, 149–157.—The rehabilitation program for aphasics consists of both individual and group instruction, occupying the patient's entire day. Therapy includes speech training, reading, writing and arithmetic, group singing, etc. Psychotherapy is an important aspect of the training program. Results vary greatly with individual patients but are considered vastly superior to undirected re-education.—*W. H. Wilke* (New York Univ.).

4642. **Simon, B., & Holzberg, J. D. A study of problems encountered by neuropsychiatric soldier patients on their first visit home.** *Dis. nerv. Syst.*, 1946, **7**, 197–200.—A questionnaire given to 150 patients revealed that although the overwhelming majority expressed a strong desire to get home while on patient status, almost 40% stated that getting home did not result in a change for the better in their condition. Thirty percent experienced difficulty in making a readjustment to their families, and 40% found it difficult to readjust to friends. During their stay at home, some 50% of the patients experienced special problems of one kind or another. While control studies on soldiers and nonneuropsychiatric patients are lacking, it is felt that they will face similar difficulties in perhaps a lesser degree.—*C. E. Henry* (Institute for Juvenile Research).

4643. **Simons, D. J., & Wolff, H. G. Studies on headache: mechanisms of chronic post-traumatic headache.** *Psychosom. Med.*, 1946, **8**, 227–242.—*P. S. de Q. Cabot* (United-Rexall Drug).

4644. **Stalker, H., & Band, D. Persistent enuresis: a psychosomatic study.** *J. ment. Sci.*, 1946, **92**, 324–342.—A study of 67 cases of adolescents and adults referred for psychiatric attention shows that the syndrome is not purely emotional in origin but has important physical components. The constitutional aspects are shown by the predominance in the male sex, by associated autonomic disorders, espe-

cially heavy sleep, by the serious family records of psychiatric conditions, and possibly by family history of psychosomatic disorders.—*W. L. Wilkins* (Notre Dame).

4645. **Swank, R. L., & Marchand, W. E. Combat neuroses: development of combat exhaustion.** *Arch. Neurol. Psychiat., Chicago*, 1946, **55**, 236–247.—"The behavior of combat soldiers who took part in the assault on Normandy is described and discussed. The development and characterization of combat exhaustion are outlined, and the relation of this condition to neuroses in general and to blast concussion is noted. The effect of the severity and duration of combat stress on the symptoms and their mode of development are emphasized."—*K. S. Wagoner* (DePauw).

4646. **Thorne, F. C. Directive psychotherapy: VIII. The psychology of satiation.** *J. clin. Psychol.*, 1946, **2**, 261–266.—"Satiation mechanisms are important in understanding the psychopathology of mental defect and disorder. It is important to explain why some individuals show reactions of excess while others appear protected by normal thresholds of satiation. An attempt is made to explain some of the phenomena of satiation on the basis of Lecky's self-consistency theory of personality. Thresholds of satiation appear to be related to the individual's conception of himself and his efforts to be self-consistent. A person who conceives of himself as being moderate and conservative will usually show low thresholds of satiation, while persons with radical attitudes tend to show immoderate thresholds. Illustrative case histories are presented to show how these principles may be used therapeutically."—*L. B. Heathers* (Univ. Washington).

4647. **Weiss, E. J. Psychogenic peripheral vasospasm.** *Psychosom. Med.*, 1946, **8**, 274–278.—*P. S. de Q. Cabot* (United-Rexall Drug).

4648. **Wilcox, P. H. Brain facilitation not brain destruction, the aim in electroshock therapy.** *Dis. nerv. Syst.*, 1946, **7**, 201–204.—"The shock therapies and the prefrontal lobotomy operations have led many to believe that destruction of brain tissue is necessary in the therapy of mental diseases. . . . Convulsive electrostimulation with pulsating direct current of one fifth the energy value of currents required in the Cerletti-Bine technique results in little if any evidence of brain damage yet produces therapeutic results which may be explained by an excitation and facilitation of inhibited brain network patterns. A general theory regarding the nature of mental disease in terms of complex inhibitory patterns interfering with the integrative mechanisms of the normal dynamic stereotypy is presented."—*C. E. Henry* (Institute for Juvenile Research).

4649. **Wright, D. G. Observations on combat flying personnel.** (1945; Publ. Bd., No. 1861.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 64. $1.00, microfilm; $5.00, photostat.—Nine papers are presented by flight surgeons, based on their experiences with units engaged in combat under varying circumstances: (1) Fifty Missions over Europe, by R. Rehm; (2) Experiences with Anxiety States in Combat Flying Personnel, by M. Layden; (3) Effects of Combat Flying Stress, by J. P. Spiegel; (4) The Combat Man Presents Himself, by C. D. Conrad; (5) The Emotionally Unstable, by T. W. Smith; (6) Flying Fatigue, by J. E. Dougherty; (7) Emotional Disorders of Pilots in Assam, India, by G. J. Kaplan; (8) War Weariness, by E. Dengrove; and (9) Anxiety Reaction in Fighter Pilots, by G. Krosnick.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4650. **Wright, T. B. The influence of the mind in producing health and disease.** *J. Tenn. med. Ass.*, 1946, **39**, 271–281.

[See also abstracts 4411, 4427, 4545, 4566, 4590, 4596, 4597, 4661, 4668, 4674, 4684, 4687, 4688, 4714, 4726, 4727, 4769, 4808, 4874, 4906, 4922, 4928, 4934.]

PERSONALITY AND CHARACTER

4651. **Abramson, H. A. The effect of alcohol on the personality inventory.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 535–557.—The paper is one of a series presented at a conference on "Non-projective Personality Tests." The Minnesota Inventory was given to a number of moderate drinkers and near-abstainers. This inventory provides objective data for fairly constant profiles for extended periods. The results indicate that the shapes of successive profiles secured before, during, and after ingestion of alcohol were remarkably uniform for each student. The instrument and technique described show promise for a more elaborate study of the personality of the alcoholic.—*M. O. Wilson* (Oklahoma).

4652. **Allport, G. W. Personality, a symposium. III. Geneticism *versus* ego-structure in theories of personality.** *Brit. J. educ. Psychol.*, 1946, **16**, 57–68.—Until very recent years, theories of personality have been dominated by a genetic orientation, emphasizing instinctive and constitutional factors (or early developmental phenomena, as in behaviorism and Freudianism) in the determination of conduct patterns. With the advent of Gestalt, and the shifting emphasis in psychoanalysis to the ego, there came a growing recognition of the motivational influence of the immediate situation. Studies of the psychological impact of war upon behavior have stressed the significance of the present motivational structure of the ego in understanding personality. In line with this recent emphasis is the doctrine of functional autonomy supported by the writer. Burt's criticisms of this theory are based on a conception of personality, which, although in many respects substantially identical with the views of the author, differs chiefly in its reliance upon McDougallian instincts which can hardly account for the contemporaneity and individuality of the ego-structure. Further divergence is found in Burt's emphasis upon correlational methods and his search for a few universal personality factors to explain the infinite variety of

motivational patterns. Yet ego structure is essentially unique, and there is more hope in the endeavor to find personal key-qualities that dominate the individual life. Ideographic methods, although less developed, are basically more important and no less scientific than nomothetic methods in the psychological study of personality. (See also 20: 1561, 2791.)—*R. C. Strassburger* (St. Joseph's College for Women).

4653. [Anon.] **Letters from Jenny.** *J. abnorm. soc. Psychol.*, 1946, 41, 315–350.—Here are presented, in slightly abridged form, the letters from a woman to 2 young friends over a period of 11 years. The letters, which were analyzed in an earlier article by A. L. Baldwin (see 16: 2717), are presented to invite verification or alternate analyses. The editor's introduction points out that such correspondence from an expressive person should be at least as valuable as projective tests in revealing motivation and personality organization. The letters are supplemented by a personal and family history of Jenny.—*C. M. Harsh* (Nebraska).

4654. **Asch, S. E. Forming impressions of personality.** *J. abnorm. soc. Psychol.*, 1946, 41, 258–290.—In a series of investigations, students were asked to form impressions and write brief characterizations of the person to whom a short list of trait adjectives applied. To facilitate evaluation, some groups of judges also rated the hypothetical person on a list of bipolar traits. It appears that traits may be central or peripheral, according to their fit in the general configuration of traits. Altering a central trait in a series changes the impression much more than altering a peripheral trait. Interpretation of a single trait varies with the context of other traits, thus denying the validity of independent, additive traits in personality. The order of listing of traits influences the impression formed from the given set of traits, and inconsistent traits produce different impressions on different judges. The 'halo' effect is interpreted as an attempt to organize a simple impression of a unitary person. Despite halo errors, it is probably more accurate to judge whole impressions than to rate isolated traits.—*C. M. Harsh* (Nebraska).

4655. **Berlucchi, C. La caratterologia di Jung.** (Characterology of Jung.) *Contr. Lab. Psicol., Milano*, 1944, 12, 525–526.—Abstract.

4656. **Berlucchi, C. La caratterologia di Lersch.** (Characterology of Lersch.) *Contr. Lab. Psicol., Milano*, 1944, 12, 526.—Abstract.

4657. **Brambilla, S. Sul metodo psicodiagnostico di Rorschach.** (On the psychodiagnostic method of Rorschach.) *Contr. Lab. Psicol., Milano*, 1944, 12, 533.—Abstract.

4658. **Cavazza, F. Persona umana e origini della personalità.** (The human being and the origin of personality.) *Contr. Lab. Psicol., Milano*, 1944, 12, 531–532.—Abstract.

4659. **Combs, A. W. The validity and reliability of interpretation from autobiography and Thematic Apperception Test.** *J. clin. Psychol.*, 1946, 2, 240–247.—"An attempt has been made to determine the validity and congruity of interpretations from TAT stories and autobiographical materials. Interpretation from such materials of the goals and desires expressed by the subject were made using a check list to standardize terms. Agreement between external analysts is only 50 percent to 60 percent, but agreement of an analyst with himself is 63 percent to 68 percent when an attempt is made to duplicate an original analysis. However, when judges are asked to determine the 'reasonableness' of the interpreter's analyses, agreements rise to between 77 percent and 93 percent. When the interpreter is permitted to defend his choices, agreement may vary in the neighborhood of 91 percent to 96 percent. This is interpreted as indicating that it is possible in such materials to demonstrate higher validities than 'reliabilities' of interpretations from such materials." (See also 20: 3694.)—*L. B. Heathers* (Univ. Washington).

4660. **Corsini, R. Bernreuter patterns of a group of prison inmates.** *J. clin. Psychol.*, 1946, 2, 283–285.—The Bernreuter Personality Inventory was given to a group of 50 mentally superior prison inmates. The prisoners differed from normals in their degree of instability at the 5% level of confidence and in their degree of lack of self-confidence at the 1% level of confidence. When the prisoners were divided into two groups according to the amount of face-to-face aggressiveness involved in their crimes, there were only slight differences between the aggressive and nonaggressive groups. The only scale on which the groups differed from normals was the self-confidence scale; the aggressive group was less self-confident than normals at the 5% level of confidence.—*L. B. Heathers* (Univ. Washington).

4661. **Crider, B. The hostility pattern.** *J. clin. Psychol.*, 1946, 2, 267–273.—"This paper has reemphasized the importance of the hostility pattern in general and to the neurotic personality in particular. Two groups emerged from our observation, the overtly aggressive and the passively resentful. Unconscious factors arising from early repression and going back to childhood were particularly evident in the more passive individuals. Projections and paranoid trends were common, but more general was a heavy load of somatic complaints arising from visceral disturbances incident to emotional upsets. With repression, resistance to therapy, and projection, insight during therapeutic conferences was difficult for these people to accept. The passively hostile were more difficult therapeutically than were the overtly aggressive. Intelligence and psychological sophistication were found related to therapeutic success."—*L. B. Heathers* (Univ. Washington).

4662. **Deutschberger, P. Adequacy and conservation in adjustment.** *Psychiatry*, 1946, 9, 109–116.—Two case histories of delinquency and race prejudice are cited briefly to illustrate certain psychological hypotheses useful in constructing a

theory of personality based upon a consideration of pathological processes concerned in the interaction between organism and environment. 18-item bibliography.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4663. **Dunlap, K. Personal adjustment.** New York: McGraw-Hill, 1946. Pp. xii + 446. $4.00.—Several personal problems of particular importance to college students are discussed by the author, whose main purpose is to make practical suggestions for avoiding maladjustment. Topics such as how to study, sex, choosing a mate, marriage, and the care and training of young children receive extensive treatment. The cause and cure of mental disorders are indicated briefly, in order to point toward undesirable behavior and to suggest methods for remedying minor disturbances. Some differences between psychological and psychoanalytical doctrines are discussed in the final chapter.—*J. S. Fulcher* (Brown).

4664. **Ewalt, J. R. Personality factors in compensation cases.** *Med. Rec., Houston*, 1946, **40**, 1519–1523.

4665. **Ferguson, R. G. A useful adjunct to the Minnesota Personality Inventory scoring and analysis.** *J. clin. Psychol.*, 1946, **2**, 248–253.—A method is described for reducing the amount of time required to score and interpret the MPI. "The volume of the cards was reduced by removing the 200 items not scored without any appreciable results in the profiles. Using certain modifications the cards were punched and coded to allow a quick drop sorting technique to obtain the raw scores. The regular conversion method was employed to secure the standard scores. After obtaining the profile, the cards were used for an item analysis," the results of which were briefly reported in the psychological report.—*L. B. Heathers* (Univ. Washington).

4666. **Fuchs, C. Hohe Intelligenz: Versuch ihrer experimentellen Erfassung mit dem Rorschachtest.** (Superior intelligence: an attempt at an experimental determination by means of the Rorschach test.) *Z. Psychol.*, 1942, **152**, 30–112.—The relationships between various types of interpretation of the Rorschach figures form the basis for classification into the "apprehension type" and the "impression type." The more impressionable group possess an intelligence more personal and more creative, while the less impressionable are characterized by activity that is better oriented toward reality. In the former group are found individuals of very superior intelligence whose Rorschach pattern resembles that often found in the abnormal; these abnormal faculties are employed by the genius in productive activities.—(Courtesy *Année psychol.*).

4667. **Gouldner, A. W. Basic personality structure and the subgroup.** *J. abnorm. soc. Psychol.*, 1946, **41**, 356–358.—This is a critique of Kardiner's "simplified" postulates about the relation of basic personality structure (see 14: 1988; 19: 2675) to the child-rearing techniques of a society. It is pointed out that wide variations in child-raising techniques exist in a culture like our own. Changes in culture pattern are not accepted merely because of harmony with the basic personality but depend upon class prestige and forces in adult society. The writer objects to reducing social phenomena to psychological ones.—*C. M. Harsh* (Nebraska).

4668. **Harris, H. J. The Cornell Selectee Index: an aid in psychiatric diagnosis.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 593–603.—The Index was administered to 9,000 civilian and naval personnel including both sexes. Its use saves much of the psychiatrist's time in arriving at a tentative but usually accurate opinion about an individual. However it is not a substitute for the complete psychiatric examination. Nine illustrative cases are briefly presented and discussed. The report is part of a conference series on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4669. **Harrowes, W. M. Psychological reactions in war-blinded.** *Brit. med. J.*, 1946, **2**, 129.

4670. **Howie, D. Internalising the external: some aspects of the psychological problem of the self.** *Aust. J. Psychol. Phil.*, 1945, **23**, 35–56.—The problem of the self is that of "explaining a process of internalising the external by which a distinctive centre of experience and significance is developed from within the psychological field." Stout dealt with it in terms of extension of biological properties; McDougall, by way of "sympathy." Freud and Gestalt psychology are also concerned. In view of Freud's antibiologistic pessimism, the Gestalt point of view seems currently most fruitful.—*H. D. Spoerl* (American International College).

4671. **Kroh, O. Abschliessende Bemerkungen zur Discussion Lamparter-Wellek.** (Final remarks on the discussion between Lamparter and Wellek.) *Z. Psychol.*, 1942, **151**, 322–331.—Comments are presented on a discussion between Lamparter and Wellek concerning the interrelationship between musical talent and other personality attributes.—(Courtesy *Année psychol.*).

4672. **Lacombe, P. The enigma of Clemenceau.** *Psychoanal. Rev.*, 1946, **33**, 165–176.—Clemenceau's personality is explained psychoanalytically in terms of his changing attitudes towards his father.—*L. B. Heathers* (Univ. Washington).

4673. **Lalo, C. Eugène Delacroix. Esquisse d'un type psycho-esthétique.** (Eugène Delacroix; an outline sketch of a psychoesthetic type.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 4/6, 161–184.—Interrelationships are seen in various aspects of the man's life.—*E. P. Johnson* (Brown).

4674. **Mittelmann, B., & Brodman, K. The Cornell Indices and the Cornell Word Form: 1. Construction and standardization.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 573–577.—The Cornell Service Index, Selectee Index, and Word Form were designed (1) to differentiate quantitatively individuals with personality and psychosomatic disturbances and (2) to facilitate qualitative diagnoses of these disorders.

The approach is both direct and indirect. Sample items are presented and validity and principles of scoring are discussed. The paper is part of a conference series on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4675. **Montalto, F. D. An application of the Group Rorschach technique to the problem of achievement in college.** *J. clin. Psychol.*, 1946, **2**, 254–260.—"This study evaluates the use of the Rorschach Group test in studying the problem of achievement in college. Ninety women students constituted the subjects. They were given the Rorschach Group test utilizing the materials and directions outlined by Harrower-Erickson. For each subject, academic standing was determined on the basis of Grade Points, and intellectual ability rated on the basis of performance on the American Council of Education test. The protocols were analyzed for the incidence of Rorschach signs of *adjustment* or so-called *healthy* personality. The study is a purely quantitative one, and the data were subjected to analysis using, primarily, the methods of correlation and partial correlation." On the basis of these results, the following conclusions were reached: achievers possessed more signs of adjustment than nonachievers; achievers had certain neurotic trends in their personalities, being somewhat over ambitious intellectually and somewhat less responsive to outer stimuli than healthy persons; and academic achievement was most closely related to the W to M ratio, %R on cards VIII–X, F%, FK + Fc, and A%.—*L. B. Heathers* (Univ. Washington).

4676. **Pannenborg, W. A. Een vergelijkend biografisch onderzoek naar eenige psychische eigenschappen van de tragedie- en comedieschrijvers.** (A comparative biographical study on some psychological characteristics of tragedy and comedy authors.) *Alg. Neder. Tijdschr. Wijsbegeert. Psychol.*, 1943, **36**, 107–123.—Using Heymans' biographical methods, the author has studied 50 biographies of 20 tragedy authors and 28 biographies of 14 great comedy authors. He refers to Heymans' typology. As far as temperament is concerned, comedy authors can be classed into 2 groups: 7 are sanguinary (Beaumarchais, Burgoyne, and Lope de Vega); the remaining 7 are nervous (Goldsmith, Sheridan, Marivaux, and Wilde). As for the authors of tragedies, 12 are sentimental (Ibsen and von Kleist), while the remaining 8 are choleric and expansive. The author compares the sanguinary comedy authors with the sentimental tragedy authors with respect to major psychological characteristics. Other dichotomies are briefly treated.—*R. Piret* (Liége).

4677. **Piotrowski, Z. A. Differences between cases giving valid and invalid personality inventory responses.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 633–638.—Kuder records were obtained for 18 superior graduate students in social work. All scored high on the social service scale. From these results and from psychiatric interviews with each, the group was subdivided into a valid group of 11 and an invalid group of 7. Rorschach scores revealed that the valid group were better adjusted to reality, possessed a capacity for a wider range of psychological experiences, desired to achieve more in harmony with their internal resources, showed a more genuine interest in people, were less inclined to intermittent depression, and were more sure of themselves. Results of the personality inventory technique introduced by Woodworth are disappointing. Its inherent validity is due probably to fear of others—a feeling of personal inferiority on the part of the subjects. The treatise is one of a series in a conference on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4678. **Rapaport, D. Principles underlying nonprojective tests of personality.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 643–652.—Assumptions underlying nonprojective tests of personality include the following: on the one hand, there are active, nonstationary, psychological functions; and on the other, quasi-stationary functions. Nonprojective tests must have parts corresponding to these quasi-stationary psychological functions, the results of which may permit interfunctional and interindividual comparisons. A definite concept and theory of quasi-stationary functions underlying achievements on these tests must prevail in order that they may be efficacious for evaluating maladjustment. The paper is one of a series in a conference on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4679. **Rosenzweig, S. Emotional implications of military rejection and discharge.** *Psychiat. Quart. Suppl.*, 1945, **19**, 11–19.—Certain typical reactions to army rejection and discharge for a wide variety of reasons are outlined. One reaction, of the individual who contemplates military service negatively, must be of relief. Other orientations are more involved. There is, secondly, the reaction of the individual who embraces military service with an overly positive receptivity. In this case, to lose the opportunity for service is taken as a serious rebuff. A third psychodynamic situation combines both positive and negative attitudes toward military life in an ambivalent pattern. Characteristic examples are found among severe psychoneurotics who, on the one hand, dread the prospects of military service, but at the same time are acutely concerned over the stigma of rejection as a confirmation of their sense of inferiority and guilt. Typical case histories illustrative of these reactions are cited. Suggestions are made for a better handling of rejection and discharge situations.—*W. E. Artus* (Columbia).

4680. **Scheerer, M. Problems of performance analysis in the study of personality.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 653–675.—Performance should be defined holistically. The entire organism deals with the given situation by structuring it in terms of a definite figure-ground experience which is part of a behavioral figure-ground organization. More information about the underlying functional processes than is revealed by most intelligence tests is

needed. Therefore, more attention must be given to successes and failures on tests. Qualitative as well as quantitative factors must be emphasized. An extensive bibliography is footnoted. The article is one of a series in a conference on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4681. **Shor, J. Report on a verbal projective technique.** *J. clin. Psychol.*, 1946, **2**, 279–282.—"The SIC (self-idea-completion) test is an adaptation of the word-association test in which the stimuli are beginnings of grammatical sentences selected to sample projective responses relating to general and specific feelings and attitudes." The author reports that the test has been found by him to be a valuable clinical tool, especially since it can easily be modified to fit individual needs. The sentences to be completed are given in the article.—*L. B. Heathers* (Univ. Washington).

4682. **Slavson, S. R. Recreation and the total personality.** New York: Association Press, 1946. Pp. x + 205. $3.00.—Man lives, for the most part, in an unbalanced milieu, so that it is necessary for all who deal with man to attempt to compensate for this imbalance. The author presents a concept of recreation embracing the insights of mental hygiene, education, psychology, sociology, social work, and group work. This psychosocially oriented recreation deals with man as a whole and studies the role of recreation in releasing unconscious and repressed impulses and cravings by sublimating aggressions and expressing constructive drives. The techniques suggested aim toward an individualization that will balance the deprivations from which man suffers.—*G. S. Speer* (Illinois Inst. Tech.).

4683. **Symonds, P. M. The dynamics of human adjustment.** New York: Appleton-Century, 1946. Pp. xiv + 666. $5.00.—This book deals with the psychological needs and motives underlying human adjustment. It is based primarily on clinical material and is psychoanalytic in approach. The early chapters deal with psychological conditions requiring the making of adjustments, such as drives, frustrations, and feelings of anxiety. Most of the 24 chapters of the book deal with various types of reactions to frustrations and anxieties, such as regression, displacement, projection, guilt, etc., a chapter being devoted to each type of reaction. Usually the author includes in each chapter a definition of the concept, a description of its characteristics and its relationships with other factors, and a discussion of its adjustment value. There is a selected, partially annotated bibliography of 883 titles.—*L. B. Heathers* (Univ. Washington).

4684. **Weider, A., & Wechsler, D. The Cornell Indices and the Cornell Word Form: 2. Results.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 579–587.—The Selectee Index furnishes a quick method for detecting at induction individuals likely to develop psychoneuroses and psychosomatic disturbances. A criterion of 15 significant answers catches persons suffering from neuropsychiatric and psychosomatic disorders severe enough to make military service impossible. A small number of healthy persons are included because of misinterpretation of items. A criterion of 25 detects only those with severe disorders. Similarly a hierarchy of criterion scores for the Service Index detects varying degrees and qualities of disorders. The Word Form is an indirect method of accomplishing the same results and has 3 sets of criterion scores. Ten tables reveal validity of the results. The paper is one of a conference series on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4685. **Wellek, A. Typologie und Musikbegabung.** (Typology and musical talent.) *Z. Psychol.*, 1942, **151**, 303–321.—The writer believes that musical aptitude consists of specific capacities, restricted to the special domain of musical tones. He accepts 2 types of musical perception (in one the affinity of sounds depends upon their tonal relations, in the other on their relative pitch) but insists that these characteristics are relatively independent of the total personality.—(Courtesy *Année psychol.*).

4686. **Wells, F. L., & Woods, W. L. Outstanding traits: in a selected college group, with some reference to career interests and war records.** *Genet. Psychol. Monogr.*, 1946, **33**, 127–249.—Data for this report were obtained from a group of slightly more than 250 healthy, well-adjusted Harvard undergraduates who were carefully observed during the years 1938–42. To describe the personalities of these subjects, a series of 25 trait designations evolved as the study progressed. These traits are described and related to planned careers in the arts, business, or medicine. The general relationship between the traits and mental functioning (e.g., intelligence) was investigated as was the interrelationship between the various traits. In the nature of a follow-up, a general account is given of adjustment in the armed services as related to, or forecast by, the personality assessments made during the period of direct observation. 57-item bibliography.—*L. Long* (City College of New York).

4687. **Wladkowsky, E. Personality and diagnostic evaluation by means of non-projective techniques.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 625–632.—By comparing scores on various subtests of an intelligence scale, such as performance, vocabulary, object assembly, picture arrangement, block design, etc., it is possible to detect various types of personality disorders, including brain disorders, schizophrenia, emotional disturbances, neuroses, and behavior disorders. The author remonstrates against a sharp differentiation between projective and nonprojective techniques. All psychological tests are projective in that they reveal the individual's make-up. He also complains that in developing diagnostic tests the criteria for validation have been diagnoses by psychiatrists who do not always agree as to a given diagnosis. More objective criteria are needed. Case data illustrate some of the points discussed. The paper is part of a series in a conference on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4688. **Wolff, H. G. The Cornell Indices and the Cornell Word Form: 3. Application.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 589–591.—The Cornell instruments are "based on clinical experience, psychiatric principles and psychological statistical techniques." With service personnel, they may be used at induction stations, in clinics, in neuropsychiatric wards, and in medical and surgical wards of hospitals. With civilians they may be used in clinics, hospitals, industry, research, and also in the proper placement of veterans in civilian jobs. The paper is one of a conference series on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4689. **Zunini, G. Sessualità e personalità.** (Sexuality and personality.) *Contr. Lab. Psicol., Milano*, 1944, **12**, 532.—Abstract.

4690. **Zunini, G. La personalità nella psicologia.** (Personality in psychology.) *Contr. Lab. Psicol., Milano*, 1944, **12**, 533.—Abstract.

[See also abstracts 4566, 4599, 4621, 4646, 4734, 4797, 4800, 4876, 4907, 4913.]

GENERAL SOCIAL PROCESSES

(incl. Aesthetics)

4691. **[Anon.] Confessions of a German propagandist; testimony of Dr. Heribert von Strempel.** *Publ. Opin. Quart.*, 1946, **10**, 216–233.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

4692. **Benedek, T. Insight and personality adjustment; a study of the psychological effects of war.** New York: Ronald, 1946. Pp. xi + 307. $4.00.—The author gives "a presentation of the basic dynamism of human relationships," with the war as background only. In Part I, 3 preparatory chapters on "The Individual" are titled: The Development to Love; Marriage; and Psychodynamics of Separation. The 4 chapters in Part II are concerned with the soldier—his initiation and adjustment to the service and his attempts to readjust to civilian life after his discharge. Nine chapters in Part III recount the effects of war on the family. Topics as indicated by chapter headings are: Mothers and Sons; Fathers and Sons; Siblings and the Veterans; Soldiers and Wives; Veterans and Wives; Mourning for the Soldier; The Disabled Veteran; Parenthood in War; and Fathers and Children. Part IV, "Men, Women: the Changing Sexual Mores," contains 4 chapters devoted mainly to woman's role in our culture and recent changes in the modes of sex rivalry.—*S. B. Williams* (Johns Hopkins).

4693. **Bergler, E. Poetic justice and its unconscious background.** *Med. Rec., N. Y.*, 1946, **159**, 548–550.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4694. **Blacker, C. P. Galton's outlook on religion.** *Eugen. Rev.*, 1946, **38**, 69–78.—Galton looked on eugenics as a science to be studied and pursued, a practice to guide social policy, and a factor in religion. His views continued relatively unchanged throughout his long life and may be summarized as follows: (1) Tribal religions, concerned with the process of birth, marriage, and death, serve a biological purpose in bringing about cohesiveness and tribal strength. (2) Man has exerted enormous efforts on the distribution of human races. (3) Mental and moral qualities are inheritable and malleable. (4) Man's faculties are increasingly unequal to the needs of his civilization. (5) Oversevere struggle and competition may retard social and evolutionary progress. (6) Religion should be concerned with the furtherance of human evolution. (7) Prayer is subjectively but not objectively effective, and the efficacy of prayer is a legitimate field of scientific inquiry. As a science, eugenics produces data; as a religion, it evokes appropriate responses to emotional facts; and as a social policy, it translates the aroused emotions into needed practical measures.—*G. C. Schwesinger* (Calif. Youth Authority).

4695. **Brelet, G. La musique, architecture temporelle.** (Music as temporal architecture.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 1/3, 69–91.—The structure of music, its creation, and its effect are discussed. The attitudes of various philosophers toward phases of the problem are given consideration.—*E. P. Johnson* (Brown).

4696. **Chapiro, M. L'illusion comique.** (The comic delusion.) Paris: Presses Universitaires de France, 1940. Pp. 160.—A new theory of the comic is presented. A joke is a distorted version of reality which contains two closely knit elements: an absurdity and a "mask" which gives the absurdity an apparent sensibleness. The "mask" releases any censoring process of logic and thus permits the absurdity to enter consciousness and fuse with reality. The comic phenomenon, therefore, consists in a conscious phase succeeding a priming period by the "mask," with a final development of a delusion of universal untruth. The biological function of the comic phenomenon is to preserve, by the repetition of the untrue delusion, "the veil which the vital instinct has thrown over the ineluctable character of the infringement." There is a bibliography of more than 200 references.—*R. Piret* (Liége).

4697. **Chastaing, M. Phénoménologie du serment.** (Phenomenology of the oath.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 1/3, 47–68.—Promises, promisers, and the seriousness with which they are taken are discussed with classic illustrations.—*E. P. Johnson* (Brown).

4698. **English, O. S. Psychiatry's contribution to peace.** *Philadelphia Med.*, 1946, **41**, 1587–1591.

4699. **Gibson, Q. B. Causation in social change.** *Aust. J. Psychol. Phil.*, 1945, **23**, 57–77.—Analysis of social change is complicated by the necessity of selecting from the large complex of causal factors the most representative ones. A criterion of "importance" is proposed, since it must be admitted that reasoning within the total range of factors is often inconclusive. Application of such a criterion makes social history a valid enterprise.—*H. D. Spoerl* (American International College).

4700. **Greeff, E. de. La structure affective de la notion de justice.** (The affective structure of the idea of justice.) *Tijdschr. Phil.*, 1943, **5**, 515–542.—There is an affective structure in the notion of justice which is in line with man's instinctual nature. The affective structure is spontaneous, dominating, and egocentric. The subject usually mistakes it for the virtue of justice which is founded on principles and code of morals surpassing the individual. Experimental facts confirm these views. It is intentionalism, taking the form of responsibility for others, which serves as the intellectual bases of affective structure. This is clearly demonstrated by pathological cases.—*R. Piret* (Liége).

4701. **Luehrs, L. E. Moral and psychologic aspects of the control of veneral disease.** *N. Y. St. J. Med.*, 1946, **46**, 1451–1454.

4702. **McGranahan, D. V. A comparison of social attitudes among American and German youth.** *J. abnorm. soc. Psychol.*, 1946, **41**, 245–257.—Samples of American and German youth were given anonymous questionnaires on social and ethical attitudes. German youth differed from American in more highly valuing obedience to authority, honor, and loyalty to the state. They have more faith in their national superiority and show less tolerance and respect for individuals. Compared to Nazi youth, the attitudes of anti-Nazi youth were more like those of Americans in all matters except parental authority. Apparently Nazi youth substituted state authority for family authority. In both countries, the girls tended to reflect the national pattern of attitudes more extremely than did the boys.—*C. M. Harsh* (Nebraska).

4703. **McNemar, Q. Opinion-attitude methodology.** *Psychol. Bull.*, 1946, **43**, 289–374.—A critical review is presented of the techniques and methodologies used in the study of opinions and attitudes. The writer discusses the problems and issues involved. An analysis is made of the measurement of attitudes by scaling techniques and of single-question opinion gauging. The administration of tests, the statistical issues, and the changes are discussed in separate sections. Correlates and interrelationships are reviewed, and a section deals with studies of morale. A bibliography of 133 titles is included.—*S. Ross* (Bucknell).

4704. **Marzi, A. L'importanza del linguaggio nello sviluppo della intelligenza.** (The importance of language in the development of intelligence.) *Contr. Lab. Psicol., Milano*, 1944, **12**, 527–528.—Abstract.

4705. **Montagu, M. F. A. Racism and social action.** *Psychiatry*, 1946, **9**, 143–150.—In discussing racial attitudes and prejudices, the author concludes that by "the calculated and judicious choice of toys, books, of dolls representing a good selection of the peoples which have entered into the formation of this nation, group games with emphasis on cooperation, fair play, and respect for the other person, and similar means, we can hope to achieve much good in the conditioning and preconditioning of good interpersonal attitudes and relations. But again it must be emphasized that at this age level, as well as at the following age levels, the parents must be persuaded to cooperate with the schools, otherwise the best laid plans of philosophers and teachers will go astray."—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4706. **Moreno, J. L. Psychodrama. Vol. I.** New York: Beacon House, 1946. Pp. 429. $6.00.—This is the first of 3 volumes covering the technique of psychodrama. Materials presented are taken from German and English papers previously difficult to obtain, psychodramatic protocols, and documents outlining the development of psychodrama from 1910–1945. Nine sections are entitled as follows: The Cradle of Psychodrama, The Therapeutic Theatre, Creative Revolution, Principles of Spontaneity, Role Theory and Role Practice, Psychodrama, Psychomusic, Sociodrama, and Therapeutic Motion Pictures. Some case materials are presented. The discussion is couched in terms of the author's theoretical system.—*G. A. Kimble* (Brown).

4707. **Newcomb, T. M. The influence of attitude climate upon some determinants of information.** *J. abnorm. soc. Psychol.*, 1946, **41**, 291–302.—In 1937–38, information of college students about the Spanish Civil War was related to the climate of attitude (Bennington vs. Catholic University) which made certain information more readily available. Both information and attitude appear to be influenced by the attitude climate, rather than the latter depending upon the former. Within any environment, persons with greatest concern about the issue tend to collect the most neutral or favorable information but not contrary information.—*C. M. Harsh* (Nebraska).

4708. **Pastore, N. A comment on "psychological differences as among races."** *Sch. & Soc.*, 1946, **63**, 136–137.—Because Terman and others have assumed that boys and girls of the same age are equal, items which differentiate between them are eliminated as unfair, but items that differentiate between whites and blacks have not been replaced. Accordingly, no mental differences are found between boys and girls, but differences are found between Negroes and whites. "The analysis presented here may be overdrawn, but surely the relation of the assumptions of the measuring techniques to the results based on those techniques should be carefully examined before one-sided equivocal interpretations are made."—*G. K. Morlan* (Univ. Kansas City).

4709. **Petar, G. L'analisi dell'espressione linguistica.** (Analysis of linguistic expression.) *Contr. Lab. Psicol., Milano.*, 1944, **12**, 528–530.—Abstract.

4710. **Przyluski, J. Le langage, la langue et la parole.** (Expression; language and words.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 1/3, 29–38.—The statement has been made that the word is to language as the individual is to the species. The author prefers a 3-level analogy such as individual-race-species, the last allowing for expression extending beyond the bounds of languages.—*E. P. Johnson* (Brown).

4711. **Ram, E. J. S. State welfare work in the United Kingdom.** *Indian J. soc. Work*, 1946, 7, 19–27.

4712. **Reich, W. The mass psychology of Fascism.** (Trans. by T. P. Wolfe from the German, 3rd ed.) New York: Orgone Institute Press, 1946. Pp. xxiv + 344. $4.50.—See 10: 4170.

4713. **Skard, S. The use of color in literature; a survey of research.** *Proc. Amer. phil. Soc.*, 1946, 90, 163–249.—The review includes a bibliography of 1,183 titles.—*W. S. Hunter* (Brown).

4714. **Slater, E. An investigation into assortative mating.** *Eugen. Rev.*, 1946, 38, 27–28.—A group of 50 neurotic hospital patients, matched with a group of 50 physically ill patients from another hospital, were studied for certain factors with the following findings: Differences in age and height and sibships were statistically insignificant. The neurotic soldiers were less fertile and came from less fertile families than did the control soldiers. The neurotic constitution is associated with an impoverishment of sex life, the incidence of neurosis being twice as high among the wives of the neurotics as among the wives of the nonneurotic soldiers. Correlation coefficients indicate a higher degree of assortative mating among the neurotic than among the normal for all traits studied.—*G. C. Schwesinger* (Calif. Youth Authority).

4715. **Sowers, R. V., & Mullen, J. W. [Eds.] Understanding marriage and the family.** Chicago: American Family Magazine, Inc., 1946. Pp. xxii + 237. $3.50.—This second volume of the American Family Book Foundation is, in a sense, a memorial to Ernest Rutherford Groves for his pioneering work in education for marriage and the family. The 17 contributors have looked at the problems of marriage and family relationships from the several perspectives of psychology, sociology, home economics, medicine, law, religion, and education. The emphasis is upon the necessity for preparing young people to assume the responsibilities of marriage, parenthood, and family living. The specialized help of the several professions is considered together with the need for co-operatively integrating and utilizing various professional techniques. The final chapter summarizes the contributions of Dr. Groves.—*C. R. Adams* (Pennsylvania State College).

4716. **Stearns, A. W. Integration of medical science and sociology.** *J. nerv. ment. Dis.*, 1946, 103, 612–625.—The author describes the role played, or frequently not played, by the medical profession from early times to the present in the handling of such social problems as sickness, poverty, and vice. The early history of Massachusetts is especially emphasized.—*L. B. Heathers* (Univ. Washington).

4717. **Strunk, M. [Comp.] The quarter's polls.** *Publ. Opin. Quart.*, 1946, 10, 246–287.—This section contains a compilation, topically arranged, of poll results released by the following organizations: American Institute of Public Opinion, Australian Public Opinion Polls, British Institute of Public Opinion, Canadian Institute of Public Opinion, *Fortune*, French Institute of Public Opinion, National Opinion Research Center, and Swedish Gallup Poll, from April 1 through June 15, 1946, except in a few cases where, for special reasons, earlier polls have been included.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

4718. **Thomson, G. The trend of national intelligence.** *Eugen. Rev.*, 1946, 38, 9–18.—Educational selection serves as a sieve to eliminate posterity for the more intelligent. The level of European intelligence is being lowered by the selecting power of the differential birth rate. The coefficient of correlation between the intelligence of a child of 11 years and the size of his family is approximately − 0.25. This is attributable to later marriages of intelligent people, their lowered production of offspring, and the children's inheritance of parents' intelligence. This negative correlation is unmistakable if calculated on a *complete* population, though not always revealed if calculated on certain selected samples. If account were taken of the childless, the coefficient would be accentuated. Calculations show a decline of 2 IQ points per generation and probably more. Fisher's procedure provides for an unbiased IQ estimate of parents as well as for children. The difference is the decline, of which 1 point is due to heredity and selection, although it may well be more. Support for equalizing cultural and educational handicaps of large versus small families is easier to obtain than for eugenic progress. Actual measurement of 2 successive generations is urged on all who are able to participate in such research.—*G. C. Schwesinger* (Calif. Youth Authority).

4719. **Woodside, M. Courtship and mating in an urban community.** *Eugen. Rev.*, 1946, 38, 29–39.—Data revealed certain economic and social pressures in moulding attitudes on marriage for a working-class urban group of 125 couples and 26 husbands whose wives would not co-operate. An interview-plus-questionnaire technique secured information on family history, personal history, social interests, circumstances of courtship, marital and sexual adjustment, contraceptive methods, and attitude to family limitation. A personality test of 48 items elicited neurotic traits. Findings disclosed that, prior to courtship, partners had met haphazardly "on the street" or as neighbors; they were attracted to each other for trivial reasons; 79 of 151 husbands admitted premarital sex relations, while only 26 of the 125 wives so admitted; and there was a swing away from unthinking acceptance of the traditional code. Marriage meant security for women and comfort for men, with most couples happy. (Those on the point of divorce would not allow an interview.) Discord arose largely from infidelity, known or suspected, linked with jealousy. Nerves, ill-health, money, and the interference of relatives followed in that order. Women shouldered the main burden of social adjustment. Sexually, men were more satisfied than were the wives. The need for sex education is stressed.—*G. C. Schwesinger* (Calif. Youth Authority).

4720. **Zipf, G. K. Cultural-chronological strata in speech.** *J. abnorm. soc. Psychol.*, 1946, 41, 351–355. —Philologists assume that numerals, pronouns, and auxiliaries represent the archaic "core" of a language, least subject to change. This suggests that the age of a word may be related to the relative frequency of its use. The proposition is tested by comparing frequency of usage (from Eldridge's list) with dictionary information about the date of adoption of words into the English language. The writer's principle of psychological inertia is supported by the correlation between age and frequency of usage of words and also by the relation between age and number of syllables of words. It is conceivable that language may mirror cultural contacts. Some refinements of the hypothesis are tested on American 'loan-words' in Pennsylwanisch.—*C. M. Harsh* (Nebraska).

[See also abstracts 4436, 4446, 4456, 4566, 4594, 4598, 4627, 4642, 4671, 4676, 4685, 4689, 4789, 4795, 4883, 4896, 4919, 4924, 4931.]

CRIME AND DELINQUENCY

4721. **Abrahamsen, D. Motivation of crime.** *J. nerv. ment. Dis.*, 1946, 103, 549–570.—Criminal behavior is motivated like any other behavior, the motivating forces frequently being unconscious ones. A crime results when the person's criminal tendencies and the opportunities for the crime are stronger than the person's resistance to crime. A modern criminology will not emerge until society recognizes and accepts the unconscious forces behind criminal acts. Some of the factors, environmental and psychological, leading to crime are discussed, and a classification of crimes is suggested. There is a 38-item bibliography.—*L. B. Heathers* (Univ. Washington).

4722. **Ahrenfeldt, R. H. Juvenile delinquency and adult crime.** *Med. Pr.*, 1946, 215, 410–413.

4723. **East, W. N. Sexual offenders.** *J. nerv. ment. Dis.*, 1946, 103, 626–666.—This article discusses the difficulties inherent in passing judgment on sexual offenses, the types of sexual offenses and the frequency of occurrence of the various types by age and sex of offenders in England, and some of the causes for sexual offenses. An adequate treatment of sexual offenders requires close co-operation between the court and psychiatrist and an improvement in the public's understanding of sexual offenses. There is a 38-title bibliography.—*L. B. Heathers* (Univ. Washington).

4724. **Gaudet, F. J. The differences between judges in the granting of sentences of probation.** *Temple Law Quart.*, 1946, 19, 471–484.—Analysis of the sentences of 6 New Jersey judges reveals significant differences in the frequency of the use of probation and the frequency of its application to various types of crime. The severity of the probationary sentences differed little among the judges. Stereotyped sentences were indicated particularly in penitentiary, and to a lesser degree in probationary, sentences.—*L. M. Hanks, Jr.* (Bennington).

4725. **Hayner, N. S. Criminogenic zones in Mexico City.** *Amer. sociol. Rev.*, 1946, 11, 428–438. —Criminal behavior in Mexico City is discussed in relation to ecological area, "white collar" criminality, governmental corruption, poverty, and custom.—*V. Nowlis* (Iowa).

4726. **Kallmann, F. J., & Anastasio, M. M. Twin studies of the psychopathology of suicide.** *J. Hered.*, 1946, 37, 171–180.—The suicide rate of blood relatives of schizophrenics exceeds that of a comparable general population. Twin study provides the only "experimental" method of investigating the relative importance of emotional, social, and biological factors in suicide. Since 1812, only 6 twin suicides in pairs (of which probably only 1 pair were identical twins) were published. Eleven cases, drawn from a file of 2,500 twin pairs gathered over the last 10 years, disclose suicide of 1 twin with survival of the other. All were white, with 4 males and 7 females, 3 monozygotics and 8 dizygotics. Five had no psychotic history, while 6 had been admitted to mental hospitals. Of the nonpsychotic suicides, 2 co-twins were hypertensive, and 1 each was manic-depressive, schizophrenic, and epileptic. Self-destruction does not seem to occur in both members of zygotic pairs. Explanations for the apparently consistent discordance of twin pairs as to suicide may be: (1) persistence and ambivalent intensification of sibling rivalry in adult life and (2) the fact that suicide results from a complex combination of motivational factors and its duplication is highly unlikely even in identical-twin partners having similar psychoses and degree of social privation. —*G. C. Schwesinger* (Calif. Youth Authority).

4727. **Keschner, M. Scientific proof and relations of law and medicine: simulation of nervous and mental disease.** *J. nerv. ment. Dis.*, 1946, 103, 571–611.—The techniques used to distract a simulator into betraying himself are discussed, and the possibilities of making errors in judgment are emphasized. There is a bibliography of 55 references.—*L. B. Heathers* (Univ. Washington).

4728. **Leonard, V. A. Crime control: a police officer's attempt to state the problem.** *J. crim. Law Criminol.*, 1946, 37, 85–104.—Despite more effective police methods for apprehending offenders and despite improvements in institutional handling of the convicted, crime rates have not been reduced. Various investigations show that the criminal is the product of maladjustment in early life. The enormous cost of crime in life and property makes it important for police to adopt prophylactic measures with reference to these youths.—*L. M. Hanks, Jr.* (Bennington).

4729. **Mailloux, N., & Beausoleil, J. Psychological clinic for young and adult offenders.** *Bull. Canad. psychol. Ass.*, 1946, 6, 50–51.—Abstract.

4730. **Medea, E. Il delinquente per tendenza.** (The delinquent by tendency.) *Contr. Lab. Psicol., Milano*, 1944, 12, 530–531.—Abstract.

4731. **O'Grady, J. Are state training schools a failure?** *Proc. nat. Conf. Juven. Agencies*, 1946, 42, 83–94.—*R. Lassner* (Vineland).

4732. **Ortiz Velasquez, J. Estudio psicológico de una homocida por celos.** (A psychological study of a murderer activated by jealousy.) *An. Acad. Med. Medellín*, 1945, 1, 639–643.—A woman of 65 murdered a woman of 30 whose amorous relation with the former's husband appeared to be the determinant of the crime. Psychologically viewed, it is a matter of jealousy on the part of the older woman, physically inferior, 10 years past her menopause, and humiliated by her husband. Jealousy is seen as prompted not so much from love of her husband as from love of self. The younger woman comes to be identified by the older woman as the principal source of her ego-degradation.—*F. C. Sumner* (Howard).

4733. **Piotrowski, Z. A., & Hobbs, J. M. Mental deficiency and military offense.** *Psychiat. Quart. Suppl.*, 1945, 19, 5–10.—Although there is a percentage of 0.75 of mental defectives in the army, 21.0% of general military prisoners are classified as defective mentally. "Thus, the chances of a mentally defective soldier committing an offense punishable by a general court martial are about 30 times greater than those of a soldier with nondefective general intelligence." Data were obtained by examination of prisoners in the rehabilitation center at Fort Jackson, S. C.—*W. E. Artus* (Columbia).

4734. **Schmidl, F. Psychological and psychiatric concepts in criminology.** *J. crim. Law Criminol.*, 1946, 37, 37–48.—The concepts of low intelligence, moral insanity, masochism, and psychopathic personality are rejected as inadequate to account for criminal personality. Clifford Shaw's work suffers from inadequate analysis of the underlying psychological motivations. Statistical approaches fail to take into account sufficiently the psychological meaning of their categories; e.g., broken homes may be "broken" with several psychological emphases. The plea is made for a more intensive psychological study of criminal behavior.—*L. M. Hanks, Jr.* (Bennington).

[See also abstracts 4660, 4664, 4900.]

INDUSTRIAL AND PERSONNEL PROBLEMS

4735. **Abrams, M. H., & Karlin, J. E. Vocabularies for military communication in noise.** (OSRD, 1943; Publ. Bd., No. 22906.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 115. $1.50, microfilm; $8.00, photostat.—The mechanization of war has made communication more difficult and at times almost impossible. This report is concerned with the work done on the audibility of the speech-signals used in radio-telephone communication. By audibility is meant the relative ease and accuracy with which a spoken message can be correctly identified by the listener. The first chapter describes a representative audibility test. The remaining chapters discuss the following: the phonetic alphabet; the most audible pronunciations of the numerals; telephone directory names for unit headquarters; a vocabulary of 1,000 highly audible words; a vocabulary of 3,120 tactical call signs, and factors governing audibility of words.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4736. **Adams, J. K., & Fowler, H. M. Report on the reliability of two forms of an activity preference blank.** (OSRD, 1944; Publ. Bd., No. 18323.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 72. $1.00, microfilm; $5.00, photostat.—In the research program on the selection of fire controlmen, an interest test was included for the purpose of measuring a factor related to motivation. This report describes the construction, administration, and reliability of Forms I and II. Both forms were found to contain a large number of reliable items.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4737. **Adams, J. K., & others. The influence of the visual tasks required of personnel in the 16 weeks fire controlmen (O) training course upon their visual proficiency.** (OSRD, 1944; Publ. Bd., No. 18325.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 29. $0.50, microfilm; $2.00, photostat.—An investigation was made to discover if the work with optical instruments and with oscilloscopes had an injurious effect upon visual functions. The testing was done at the Naval Training Schools, Fort Lauderdale, Fla., with a group which spent a large number of hours of practice on stereoscopic trainers and rangefinders, on tracking telescopes, and on radar oscilloscopes in the course of training as Fire Controlmen. Measures of visual acuity (far and near vision), vertical phoria, lateral phoria, stereopsis, and color vision were obtained with the Bausch and Lomb Ortho-Rater, and an additional measure of stereopsis was obtained with the Multiple Projection Eikonometer (stereo vertical test). These measures were obtained at the beginning and again at the end of the 16-week course. It was found that: there is no deterioration of any of the above visual functions as a result of this training; there is a slight improvement in visual acuity scores for right eye and for worse eye; there is an improvement in stereopsis score on both the Eikonometer, stereo vertical, and the Ortho-Rater; and there is an improvement in color vision score on the Ortho-Rater.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4738. **Armstrong, R. C. Visual problems in flying.** (AAF, Exp. Engng Sect., 1942; Publ. Bd., No. 6945.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 15. $0.50, microfilm; $1.00, photostat.—A series of conferences was held during the week of July 27–August 1, 1943, with personnel of the following organizations: American Optical Co.; Bausch and Lomb Optical Co.; Distillation Products, Inc.; Eastman Kodak Co.; Fatigue Laboratory, Harvard Business School; Howe Laboratory of Ophthalmology; Polaroid Corporation; and Yale University, Department of Psychology. The specific visual problems discussed were: optical tolerances for

flying goggle lenses, night vision and dark adaptation, color vision, and depth perception. Results of the conferences are given in appendices.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4739. **Bartley, S. H., & Chute, E. The effects of binocular magnification on the visibility of targets at low levels of illumination. Final report.** (OSRD, 1944; Publ. Bd., No. 28594.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 68. $2.00, microfilm; $5.00, photostat.—An investigation is described which was carried out to test the visibility of targets. Three observers, adapted to dark in the usual manner, stood on a steady platform holding the binoculars by hand and named the position of the target after each 6-sec. exposure. The investigation was carried out with 6x30, 7x50 (diaphragmed to 7x35), 8x40, and 10x50 binoculars, all having a 5 mm. exit pupil and optical surfaces coated with fluoride to prevent loss of light by reflection. The levels of screen brightness used covered that of a very dark night to full moonlight with a high haze. Circular targets were used, which appeared as black against the screen, in any of 4 possible positions. It was concluded from the results of this study that, under conditions in which no haze is present to reduce the contrast of the targets, the gain in range with magnification is linear from 1X to 10X, provided that the exit pupil is held constant.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4740. **Beals, L. S., & Luykx, H. M. C. Report on night flying disorientation.** (Bur. Med. Surg.; Publ. Bd., No. 22991.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 21. $0.50, microfilm; $2.00, photostat.—A study was undertaken to determine the degree of disorientation or autokinetic illusory effect of a point source of light against a dark background. Methods of testing are given, and results are evaluated. An outline of further necessary studies, prior to continuation of simulated flight studies, is presented.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4741. **Beardsley, G. F. Japanese navy training equipment and devices—report on.** (AAF, Air Tech. Intelligence Group, 1945; Publ. Bd., No. 16795.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—Interrogation is reported of Japanese naval officers on Japanese naval trainers including Link trainer, landing trainer, night-landing trainer, torpedo trainer, horizontal- and dive-bombing training equipment, and recognition-training equipment. An explanation of the characteristics of some of this equipment (including drawings) is appended.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4742. **Beier, D. C., & others. A follow-up study of the study of the efficiency of the projection eikonometer test in predicting the performance of stereoscopic height finder observers.** (OSRD, 1944; Publ. Bd., No. 18326.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, phototsat.—This report describes a follow-up study of the effectiveness of the Projection Eikonometer Stereo-Vertical Test as the final test in a selection battery designed to eliminate potential failures in stereoscopic height-finder performance. Data obtained from 2 classes were compared with data from 8 subsequent classes, and a comparison was made of the relationship of scores on the Projection Eikonometer to 2 Height Finder School performance criteria. Results from the 2 groups were practically identical. Both studies show approximately the same low percentage of failures when the Projection Eikonometer was used as the final selection instrument.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4743. **Beier, D. C., & others. The selection of fire controlmen (O) rangefinder and radar operators.** (OSRD, 1945; Publ. Bd., No. 18327.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 45. $0.50, microfilm; $3.00, photostat.—The results are presented of an experimental analysis and validation of selection requirements for the selection of fire controlman (O), radar and rangefinder operators. In general, the study consisted of an investigation of the predictive relationship of various paper-and-pencil tests and various visual tests (administered prior to or upon entrance) to graduation achievement and performance criteria. After an investigation of many possible combinations of the tests at various cut-offs, it appears that, in terms of selection and instruction cost and other practical considerations, the following 2 batteries of tests yield the most satisfactory results: (*a*) Battery No. 1—General Classification Test, 50 and above; Arithmetic Test, 45 and above; Ortho-Rater Visual Acuity worse-eye score, 9 or greater; Ortho-Rater Vertical Phoria score, not less than 4 nor more than 7, with hyperphoria not greater than ½ prism diopter; Ortho-Rater Lateral Phoria score, not less than 4 nor more than 12, with esophoria not greater than 3½ prism diopters and exophoria not greater than 4½ prism diopters; Multiple Projection Eikonometer Test score, 58 or greater; (*b*) Battery No. 2—General Classification Test, 45 and above; Arithmetic Test, 55 and above; Ortho-Rater Visual Acuity worse-eye score, 9 or better; Ortho-Rater Vertical Phoria score, not less than 4 nor more than 7, with hyperphoria not greater than ½ prisms diopters; Ortho-Rater Lateral Phoria score, not less than 4 nor more than 12, with esophoria not greater than 3½ prisms diopters and exophoria not greater than 4½ prisms diopters; and Ortho-Rater Depth score, 5 or greater. On the basis of research, it was recommended that either Battery 1 or Battery 2 at the cut-offs listed above be combined with the following existing requirements: interpupillary distance, not less than 60 mm. nor more than 70 mm.; emotional stability and calmness under stress; quick reactions; age not over 30 years; and interest on the part of the candidate and desire to be trained as a fire controlman (O).—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4744. **Beier, D. C., & others. Lesson plans on selection and training for rangefinder officers' course, fire controlmen (O), rangefinder operators, naval training schools, Fort Lauderdale, Florida.** (OSRD, 1944; Publ. Bd., No. 18331.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 33. $0.50, microfilm; $3.00, photostat.—An outline series of lesson plans is given pertaining to the selection and training of fire controlmen (O), rangefinder operators. Training is treated first and selection second. The lessons on training describe the instruments available for training and indicate principles of learning and training procedure which have been found effective. They also include a brief description of some of the jobs of the director and plotting-room crews, so that this material logically precedes the presentation of the material on selection.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4745. **Benson, O. O., Jr. Effect of centrifugal force on posture, vision, and consciousness.** (AAF, Exp. Engng Sect., 1941; Publ. Bd., No. 5112.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 4. $0.50, microfilm; $1.00, photostat.—The posture of the air-crew members at the time the centrifugal force is applied is very important in determining the blackout threshold. The average trained young pilot sitting nearly erect has a "G" threshold of approximately 5–5.5G when the stress is applied for 4 sec. An extension of the time force as applied disturbs the all-important G-time relationship and lowers the force (G) value at which visual disturbances occur. The hydrostatic suit appears to raise the blackout thresholds.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4746. **Benzinger, T. Instruments and controls as tools of the mind and muscles.** (BIOS; Publ. Bd., No. 22636.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $0.50, microfilm; $1.00, photostat.—This paper is a translation from the German text. A survey of the relationship between the motor functions of the body and the technical accessories, such as indicating instruments, precedes an account of a landing aid called a "Lander." This gives to the novice pilot the lateral view of his plane in relation to the ground and gives him a perfect impression of all elements he needs to judge his landing approach. It can also be used to make fog landings. This altitude indicator together with the "Stachelkeule" method of indicating distance from the ground could give a visual indication without a gap of the whole glide-in run. The second part takes up the possibility of attacking a bomber formation from the front, using a plane in which fixed stern guns are operated by a second pilot who sits facing the rear towards the approaching bomber formation. It has the advantage of an unlimited field of vision and also provides an attack on the weakest armor of the enemy. Diagrams showing the operation of the "Lander" are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4747. **Bernreuter, R. G., & Jackson, T. A. Sales personnel selection and related services.** *J. consult. Psychol.*, 1946, 10, 127–130.—*S. G. Dulsky* (Personnel Inst., Chicago).

4748. **Berry, R. N., Searle, L. V., Wagoner, K. S., Nafe, J. P., & others. A system of automatic devices for the detection and recording of errors in a 105 mm Howitzer battery.** (OSRD, 1945; Publ. Bd., No. 20288.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 22. $0.50, microfilm; $2.00, photostat.—The devices described in this paper consist of a set of sound-scribers, by means of which verbal commands transmitted to gunners are recorded on wax discs, and a set of remote indicating devices, by means of which scale settings on the range quadrants, scale settings on the panoramic telescopes, and actual directions and elevations of the howitzer tubes could be known at all times. They were designed in connection with a general investigation of psychological factors in the operation and design of field artillery sighting equipment. Photographs and a schematic diagram are attached.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4749. **Black, J. W., & Mason, H. Training personnel for voice communication.** *J. acoust. Soc. Amer.*, 1946, 18, 250.—Abstract.

4750. **Brighouse, G. The physically handicapped worker in industry.** *Industr. Relat. Sect. Calif. Inst. Tech. Bull.*, 1946, No. 13. Pp. 54.—This study is an objective appraisal of the work experience and effectiveness of 1,815 physically handicapped and 538 physically normal employees of an aircraft corporation during 1944–1945. In the employment of the physically handicapped, the corporation lost a little in flexibility of employees, spent a little more time in correct placement, and tended to get work slightly inferior to that of normal employees in quality and quantity. Their accident rate was slightly higher; the accidents tended to be slightly more serious and required somewhat higher compensation per capita. On the other hand, the group (in a period of generally high labor turnover) were more stable on the job, less ready to quit, had less unexcused absenteeism, and showed a greater willingness to remain on jobs without possibilities of promotion to supervisory status.—*G. S. Speer* (Illinois Inst. Tech.).

4751. **Brues, A. M. Body measurements of female flying personnel.** (AAF, Engng Div., 1943; Publ. Bd., No. 6958.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 66. $1.00, microfilm; $5.00, photostat.—Data are presented on 31 body measurements taken on 152 flying nurses at Bowman Field, Ky., and 447 women pilot trainees at Avenger Field, Tex. This information may be of use in the design and sizing of flying equipment, as well as in establishing size criteria for the selection of trainees. Descriptions and technique of measurements are presented in Appendix 1. Distributions and averages of all measurements, for nurses and pilots separately and for the total group, are given in Appendix 2.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4752. **Brues, A. M., & Damon, A. Eye movement in sighting as related to design of turret sighting panels.** (AAF, Tech. Rep., 1943; Publ. Bd., No. 2906.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—An experimental study was made to determine the arc of movement of the head in following with the eyes a series of points at various angles above and below the horizontal, extending from directly above to directly below the subject. Data are given to be used for designing an adequate sight mounting in an airplane turret.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4753. **Brues, A. M., & Damon, A. Eye movement in sighting as related to design of turret sighting panels.** (AAF, Tech. Rep. 1943; Publ. Bd., No. 5183.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—Tests were made to determine the arc of movement of the head in following with the eyes a series of points at various angles above and below the horizontal, extending from directly above to directly below the subject. The total arc covered by the series of points was 180°, and 9 fixation objects were used, at 22½° intervals. A record was made of the position of the eye and of the ear-hole at each stage, and a diagram was drawn to represent the average of 21 subjects. The findings of these tests aid in solving the mechanical problems of mounting and pivoting the gun sight. One possible mechanical system is presented in diagram.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4754. **Burnham, P. S. [Comp.] Employment, rehabilitation, and veteran adjustment; a bibliography, 1940–1945.** Chicago: Public Administration Service, 1946. Pp. 27. $1.00.

4755. **Campbell, R. K. Final report in summary of research and development of classification aids by NDRC Project N-116a.** (OSRD, 1945; Publ. Bd., No. 12065.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—The principal contributions of the project were: (*a*) the development of several models of a classification aid which has been called the Selectometer, for facilitating the use of classification data in making recommendations for assignment to various jobs; (*b*) the analysis of sea experience and potentialities of men into elements judged to be predictive of success in rate aboard destroyers, and the development and application of a point-score method which permits weighing and summarizing of the elements into one total evaluation score; (*c*) the preparation of tests to measure the proficiency of men in signaling procedure and in duties of the Quartermaster; (*d*) the determination by analysis of phonographic recordings and typescripts of probable sources of error in classification interviews, and the outlining of a suggested training program to correct some of these difficulties. An annotated bibliography of project reports and memoranda and a list of project personnel are given.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4756. **Carroll, P., Jr. Testing men for time study. Parts I & II.** *Mod. Management*, 1946, 6, No. 4, 22–24; No. 6, 20–22; 26.

4757. **Carter, L. F., & others. Psychological research on navigator training: preliminary draft.** (AAF, Aviat. Psychol. Program, 1945; Publ. Bd., No. 18677.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 292. $3.00, microfilm; $20.00, photostat.—Development of objective techniques for measuring navigation skill included the development of a series of ground measures and aerial measures of proficiency and the evaluation of their use. Techniques of selection and instruction of students and the selection and evaluation of instructors, including the development of criteria of teaching performance, are all treated fully.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4758. **Chapanis, A. Results with the Luckiesh-Moss-Army Air Forces anoxia demonstration chart, type AAF-1, at simulated altitudes of 15,000 and 16,000 feet.** (AAF, Engng Div., 1943; Publ. Bd., No. 5133.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—This report includes a summary of the results obtained with the chart (see **20:** 4760) as used by 100 men at each of the two simulated altitudes, 15,000 and 16,000 feet.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4759. **Chapanis, A. Night vision tests and the night vision testing program in the Army Air Forces.** (AAF, Engng Div., 1944; Publ. Bd., No. 5140.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 25. $0.50, microfilm; $2.00, photostat.—The purpose of this report is (1) to point out some errors in the statistical analysis of night-vision tests data used in the AAF School of Aviation Medicine Research, Report No. 1, Project No. 213, (2) to summarize night-vision test data collected recently by the Aero-Medical Laboratory, and (3) to show that these data and the School of Aviation Medicine data are actually in essential agreement.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4760. **Chapanis, A. The Luckiesh-Moss-Army Air Forces anoxia demonstration charts, types AAF-1 and AAF-2.** (AAF, Engng Div., 1943; Publ. Bd., No. 6949.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—Two new visual charts, known as the Luckiesh-Moss-Army Air Forces anoxia demonstration charts, types AAF-1 and AAF-2, have been developed for demonstrating the effects of anoxia on contrast sensitivity under dim illumination. A description of these charts and a digest of earlier work on the subject appear in Appendix 1. Methods for illuminating the chamber to the proper level are illustrated in Appendix 2. Instructions for administering the tests are given in Appendix 3.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4761. **Cook, P. H. Criteria for the selection of personnel officers.** *Bull. industr. Psychol. Personnel Pract., Melbourne,* 1946, **2**, 28–37.—A follow-up study was made of 50 men and 38 women graduated from emergency 6-month courses in industrial personnel work conducted by the universities of Sydney and Melbourne. Three judges interviewed subjects after 6 months of employment. In addition to training, the minimum essentials for successful work experience are: educational level equal to "intermediate certificate standard," IQ 105, and age (women only) of at least 27. Rorschach tests are useful as a selection instrument, but "positive predictions cannot be made." Persons with "introversive personality trends are more likely to be successful than those with extratensive trends." Prior industrial experience is not related to success in this work.—*F. K. Berrien* (Colgate).

4762. **Cook, S. W. [Ed.] Psychological research on radar observer training (preliminary draft).** (AAF Aviat. Psychol. Program; Publ. Bd., No. 25717.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 466. $10.00, microfilm; $32.00, photostat.—The report begins with an account of the use of radar as a device for blind bombing and navigation. Chapter 3 presents a chronology of research activities to serve as a framework for more detailed descriptions in later chapters. The next chapter consists of a job description and analysis of the task of radar observer based upon observations of ground and aerial training, with a second section devoted to job requirements in combat. Chapters 5, 6, 7 and 8 deal with proficiency criteria which have been developed for the radar observer training program. Chapter 9 analyzes the bombing errors of radar observer students in training within the continental United States. Chapters 10 and 11 discuss the selection research in radar observer training. Chapter 10 gives a historical account of selection research prior to the establishment of the Psychological Research Project (Radar) and an account of the methods through which the selection of radar students was actually accomplished. It also reviews the selection research accomplished by the Radar Project of NDRC and the Aircrew Evaluation and Research Detachment No. 1 of the AAF Aviation Psychology Program. Tests developed by each of these groups are described. Chapter 11 is concerned with the selection test research conducted by the Psychological Research Project (Radar). Two validation studies were completed, each based upon a sample of bombardiers and a sample of navigators. The final chapter evaluates the research accomplished to date and presents a prospectus for further investigation. Sample tests appear in the appendix.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4763. **Corey, E. L., & Webster, A. P. Field study of the effects of benzedrine on small arms firing under conditions of acute fatigue.** (Bur. Med. Surg., 1943; Publ. Bd., No. 22992.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 73. $1.00 microfilm; $5.00, photostat.—One hundred men were kept continuously active for 60 consecutive hours, half the group receiving benzedrine sulfate medication and half receiving a placebo. This report contains a detailed description of this study of the effects of benzedrine on the accuracy of small arms firing under conditions of fatigue. It was found that benzedrine had no deleterious effects and that the administration of benzedrine resulted in superior firing performance.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4764. **Cornehlsen, J. H., Jr. The selection and classification of naval officer personnel.** *Amer. Psychologist,* 1946, **1**, 349–352.—An account is given of the growth and function of the officer selection and officer classification program which has been conducted by the Bureau of Naval Personnel.—*N. R. Bartlett* (Johns Hopkins).

4765. **Csapody-Mocsy, M. [Test charts for women's needlework.]** *Klin. Mbl. Augenheilk.,* 1943, **109**, 251 ff.

4766. **Damon, A. Anthropometric data on Army Air Forces flying personnel.** (AAF, Exp. Engng Sect., 1942; Publ. Bd., No. 6939.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 58. $1.00, microfilm; $4.00, photostat.—The data here presented have been condensed from the complete report now in the Wright Field Library, prepared for the Army Air Forces Matériel Center by E. A. Hooton and associates of Harvard University. It furnishes, in a form suitable for general use by designers of flight equipment, information relating to bodily dimensions of Army Air Forces flying personnel. Subject matter includes reproduction of data blank, techniques of measurement, percentile distributions (in tabular form), tabular inconsistencies, and correlations.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4767. **Damon, A. Anthropometric survey of Army Air Forces flying personnel—effect of flying clothing on.** (AAF, Exp. Engng Sect., 1942; Publ. Bd., No. 6941.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—In designing aircraft, it is important to know the amount of space occupied by personnel when wearing flying clothes. This report presents data indicating the increase in bodily dimensions of flying personnel by the Army Air Forces heavy winter flying clothing assembly (type B-3 jacket, A-3 trousers, B-5 helmet, A-9 gloves, and A-6 boots) and by the electrically heated suit (type F-1, with B-5 helmet, A-6 gloves, D-1 boot pilots, and A-9 boots).—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4768. **Damon, A., & Benton, R. S. Anthropological analysis of Martin upper local turret.** (Type A-3). (AAF, Exp. Engng Sect., 1942; Publ. Bd., No. 6940.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 4. $0.50, microfilm; $1.00, photostat.—The Martin upper local turret, standard in the B-24 and B-26, is analyzed with respect to

percentages of Army Air Forces flying personnel accommodated, suggestions for increasing this percentage, and criteria for selection of personnel to operate the turret. General safety features are discussed in the appendix.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4769. **Davidoff, E. The prevention of maladjustment in an Army Service Forces Training Center.** *Dis. nerv. Syst.*, 1946, **7**, 268–272.—*C. E. Henry* (Institute for Juvenile Research).

4770. **Davis, F. B. The AAF qualifying examination: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 18681.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 349. $3.50, microfilm; $24.00, photostat.—The development and the research work by the AAF Psychological Research Units on the Qualification Examination, the most important single examination used by the AAF during World War II, are presented. Examination is made of (1) the principles underlying the construction and modifications of the test forms and (2) the uses of the examination. The development of verbal tests, information tests, practical judgment and reasoning tests, mechanical comprehension tests, and perceptual tests is taken up in detail, and findings on each are summarized. This report contributes to methodology in the field of psychometrics.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4771. **Dubois, P. H. [Ed.] The classification program (preliminary draft.) Part I, Text; Part II, Appendix.** (AAF Aviat. Psychol. Program, 1946; Publ. Bd., No. 25719.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 538. $11.00, microfilm; $36.00, photostat.—The classification batteries from February, 1942, to June, 1945, are described. The validity studies of these tests give results in pilot training, navigator training, and bombardier training. Validity of the stanines for predicting success of specialized groups (Negroes, Chinese, West Point cadets, and Wasps) is discussed. In order to evaluate the usefulness of psychological procedures, tests were given to a group of 1,300 men who were admitted to pilot training without any requirements as to aptitude or personality. The results showed the value of the qualifying examination as a preliminary screen. At the end of the war the psychological program was extended to the formation of combat crews. On the basis of aptitude measures, training records, and proficiency measurements, certain crews were designated as potential lead crews.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4772. **Dunlap, J. W. Training of free gunners in the German air force.** (1945; Publ. Bd., No. 4364.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 5. $0.50, microfilm; $1.00, photostat.—A prospective gunner was first trained in his rate, i.e., ordnance, radio, or mechanic, and he was then sent to a gunnery school where training was divided into (1) basic knowledge of the gun, (2) care of weapons and turrets, (3) theory of sighting, (4) range firing, (5) synthetic training, and (6) recognition. This training program for aerial gunners was very similar to that of the U. S. Navy, except that more time was allotted and less ammunition was used.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4773. **Egan, J. P. Articulation testing methods, II.** (OSRD, 1944; Publ. Bd., No. 22848.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 95. $1.00, microfilm; $7.00, photostat.—There are many reasons why oral communication may be inefficient or fail completely. Distortion of speech sounds by inferior transducers, masking of these sounds by ambient or electrical noises, improper use of microphones and headsets by communications operators, all conspire to make communication uncertain and unreliable. This report presents a description of some of the methods found useful for evaluating the relative importance of those factors which influence the intelligibility of speech. Its purpose is also to make available to other laboratories engaged in research on communication the lists of syllables, words, and sentences constructed and extensively used at this laboratory. Methods of conducting articulation tests are described. In the typical method, an announcer reads lists of syllables, words, or sentences to a group of listeners, and the percentage of items correctly recorded by these listeners is the articulation score. It must be remembered that all articulation scores are relative scores, contingent upon the use of specific announcers, microphones, amplifiers, earphones, noises, listeners, and test lists. Appendices contain syllable and word lists.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4774. **Egan, J. P., & Stevens, S. S. Effect of distance from the lips on the speech-to-noise ratio obtained with the microphone M-6/UR.** (OSRD, 1944; Publ. Bd., No. 22856.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $0.50, microfilm; $1.00, photostat.—Measurements were made of the speech-to-noise ratio provided by the Western Electric microphone of the noise-cancelling type when it is suspended in front of the lips by a boom and when it is mounted in a Western Electric suspension. Results presented in graphs indicate that the over-all speech-to-noise ratio and the ratios in each of the frequency bands were very nearly the same when either the Western Electric suspension or the boom suspension was used. This was true only when the boom suspension was adjusted so that the microphone was lightly touching the lips of the announcer. The noise-cancelling microphone provides a higher speech-to-noise ratio than the hand-held T-38 microphone.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4775. **Egan, J. P., & Wiener, F. M. Effects of frequency distortion upon the intelligibility of speech.** *J. acoust. Soc. Amer.*, 1946, 18, 249–250.—Abstract.

4776. **Egan, J. P., & others. Collected informal communications on articulation tests of interphone equipment.** (OSRD, 1943; Publ. Bd., No. 22550.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 95. $1.00, microfilm; $7.00, photostat.

4777. Egan, J. P., & others. Performance of communication equipment in noise. (OSRD, 1942; Publ. Bd., No. 22845.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 134. $1.50, microfilm; $9.00, photostat.—The experimental program was designed to test and evaluate the instruments of communication employed in the Services and to develop methods for improving the transmission and reproduction of speech by interphone and radio. This research, carried out in co-operation with the Bureau of Aeronautics, the Army Air Forces, and the Signal Corps, demonstrates 3 things: (1) Communication systems now in service are inferior in quality and effectiveness. Distortion of speech sounds due to the low fidelity of microphones and earphones, plus the masking caused by loud ambient noises, makes oral communication uncertain and unreliable. (2) Means are at hand to remedy the most glaring deficiencies. A resourceful application of modern developments to the problem of transmitting intelligence will approximately double the effectiveness of interphone and radio. (3) Ultimate perfection of communication demands that each link in the total system be designed to complement and work effectively with every other link; the technical problems involved call for a program of research, development, procurement, and operational policy. The most fundamental problem now demanding solution appears to concern the advisability of changing over to low-level microphones—magnetic or moving coil—in order to take advantage of their low distortion, greater reliability, and potentialities for wide frequency response and high fidelity. Procedures and findings of tests of over-all communication systems, microphones, and earphones are described. An appendix contains a reprint from an informal communication covering articulation tests on interphone systems during flight, dated Aug. 15, 1942.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4778. Egan, J. P., & others. Studies on the effect of noise and speech communications. (OSRD, 1943; Publ. Bd., No. 22907.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 38. $0.50, microfilm; $3.00, photostat.—The experiments discussed in this report provide information upon the basis of which it may be possible to specify tolerable speech-to-noise ratios at the ear of the listener for the accurate perception of speech. The determination of the threshold of intelligibility involved a procedure whereby the listener adjusted the speech-to-noise ratio until he was just able to follow the gist of connected discourse. The levels of speech and noise used in the experiments were determined with 3 meters: RCA noise meters, types 302-A and 302-B, and a standard VU meter (Daven type 911-B). Two varieties of noise tend to interfere with the reception of speech in aircraft radio communication: (1) ambient acoustic noise and (2) electrical background noise. The peak factor for various meters is found in Appendix I, and critical sensation levels of received speech in Appendix II.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4779. Egan, J. P., & others. The articulation efficiency of nine carbon microphones for use at low altitudes. (OSRD, 1944; Publ. Bd., No. 22913.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 73. $1.00, microfilm; $5.00, photostat.—Results are presented of a series of tests designed to cover the principal carbon microphones available for use at low altitudes. Articulation tests were used because they measure directly and reliably the efficiency with which the various microphones transmit speech. Tests were conducted in an ambient noise (120 db) under conditions simulating conditions of actual use. From the point of view of articulation, comfort, and convenience, the noise-cancelling type D-173264 (Western Electric) microphones and the ANB-M-C1 microphone in either the D-17 or the BTL noise shield are superior to any of the other carbon microphones tested. They are reasonably comfortable to wear, convenient to use, and provide high intelligibility even when used by inexperienced talkers. The most important factors affecting intelligibility are (1) the frequency response of these microphones and (2) the extent to which they pick up the ambient noise.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4780. Ellson, D. G., & Imus, H. A. Memorandum on the construction and calibration of the NDRC interpupillometer. (OSRD, 1944; Publ. Bd., No. 18330.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—This report describes the design and construction of the interpupillometer developed by Project N-114, NDRC. There are sketches showing the interpupillometer in position for operation, eyepiece assembly details, front and rear views, and carrying-case details.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4781. Fisher, H. M., & Imus, H. A. The adjustment of the M2 Trainer for standard testing. (OSRD, 1943; Publ. Bd., No. 27299.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $1.00, microfilm; $1.00, photostat.—Detailed instructions are given for adjusting the M2 Trainer instrument in order that the selection test for stereoscopic height-finder observers may be administered properly for standard testing. Steps in the adjustment of the target and reticle are illustrated by sketches.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4782. Fitts, P. M. Psychological requirements in aviation equipment design. *J. Aviat. Med.*, 1946, 17, 270–275.—A list of psychological requirements for equipment design is presented. "These requirements are based upon existing knowledge of the conditions which should be met in order for the pilot, the navigator, the radar operator, and other aircrew members to carry out their duty assignments most effectively and safely. Present information permits only a general statement of these requirements" and "the list is proposed at this time . . . chiefly as a statement of research objectives."—*A. Chapanis* (Johns Hopkins).

4783. **Flory, C. D., & Janney, J. E. Psychological services to business leaders.** *J. consult. Psychol.*, 1946, 10, 115–119.—*S. G. Dulsky* (Personnel Inst., Chicago).

4784. **Flynn, J. P., & others. Auditory factors in the discrimination of radio range signals: collected informal reports.** (OSRD, 1945; Publ. Bd., No. 19811.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 83. $1.00, microfilm; $6.00, photostat.—For 18 years, the low-frequency radio range has been the most important single factor in making possible the navigation of aircraft under instrument-flight conditions. Studies were made on factors limiting the usefulness of the low-frequency radio ranges and, wherever possible, methods were suggested for improving their operation. The present report deals with the pilot-listener and his ability to discriminate radio-range signals under a wide variety of signal and noise conditions and with a number of systematic changes in such factors as headsets and range filters. The topics covered are: (1) the effect of signal intensity and signal-to-noise ratio on the discrimination of radio-range signals; (2) improvement in discrimination of radio-range signals due to the use of the beam filter; (3) the effect of beam filter band width on the audibility of signals; (4) the performance of flat and peaked earphones in receiving radio-range signals; (5) a radio-range signal expander; and (6) a pitch modulator for radio-range reception.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4785. **Forbes, T. W., & others. Flying by auditory reference ("Flybar").** (OSRD, 1945; Publ. Bd., No. 22850.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 91. $1.00, microfilm; $7.00, photostat.—Research is described on the development of the "Flybar" system of auditory signals by means of which the ears could take over some of the duties of reading flight instruments so that the eye might be otherwise engaged and ocular fatigue be reduced. The project included the basic indications necessary for ordinary blind flying, and also altitude, airspeed, and slip indications for the dive-bomber pilot. Seven tests were made of various combinations of sound signals. A comparison of auditory and visual signals for turn, bank, and airspeed indications for use with a Link trainer showed a similar course of learning for visual and auditory signals, although the students thought that the audio signals were slightly harder. Appendix A gives the development of an automatic annunciator for dial readings by the use of magnetic tape with 24 separate channels which run continuously and which can translate a dial indication into its spoken equivalent. Appendix B takes up certain problems in flying by aural indications (Flybar) and gives a summary of the findings and possible future applications of the equipment, in the form of questions and answers.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4786. **Forrester, G. Occupations: a selected list of pamphlets.** New York: H. W. Wilson, 1946. Pp. 240. $2.25.—The major portion of this book is devoted to a list of pamphlets on various occupations arranged in alphabetic order. Each reference is completely annotated, and in many cases a brief summary of the contents is given. In addition to this bibliography, the author states the criteria she used in compiling the bibliography, discusses how material on occupations can be indexed and filed, and lists pamphlets published in series.—*L. Long* (City College of New York).

4787. **Franzen, R., & McFarland, R. A. Detailed statistical analysis of data obtained in the Pensacola study of naval aviators.** (CAA, Div. Res., 1945; Publ. Bd., No. 18687.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 51. $1.00, microfilm; $4.00, photostat.—A detailed discussion of the statistical analysis of psychological and physiological test data is given. Two samples of subjects were employed in this particular investigation: (1) 10 officers and college graduates and (2) high-school school graduates and those who had had an additional 2 years of college work. The following topics are among those discussed: the reliability of the samples; intercorrelation of 9 psychological and psychomotor tests; comparison of specific criterion groups and the total population; and comparison of washouts for inaptitude and for all cadets, using 14 tests with the second group. (See also 20: 4831.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4788. **Fraser, J. M. A psycho-dynamic approach to industrial relations.** *Occup. Psychol., Lond.*, 1946, 20, 132–138.—The starting point in the study of industrial relations must be the whole personality of the individual worker, subject to various internal tensions in a total environment which makes various demands on him. Two groups of pressures in particular require further study: (1) the noneconomic internal drives and (2) the external pressures of the social environment of work.—*G. S. Speer* (Illinois Inst. Tech.).

4789. **Garrett, H. E., & Ligon, E. M. Report to Applied Psychology Panel on project concerned with combat leadership.** (OSRD, 1944; Publ. Bd., No. 22917.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, photostat.—This report embodies a study of the methods employed in evaluating leadership potentiality of young men in officer candidate schools. The data analyzed in this study consist of records of 2 classes at the Fort Sill Field Artillery School, and a group of officers who were graduates of Fort Benning. Intercorrelations among selected items are given for the officer candidate groups. In analyzing the data relative to the officers, the following conclusions were stated: (1) It seems clear that combat efficiency is not very closely related to ratings for leadership obtained in OCS. (2) There is some indication that the best officers come from the age range 22 to 28. (3) It is reasonably clear that, above a certain desirable minimum, intelligence as measured by a GCT has little relevance to combat performance. (See 20: 4795.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4790. **Gildea, M. C. L. The psychiatrist talks to foremen and counselors.** *Ment. Hyg., N. Y.*, 1946, 30, 406–420.—Implications of mental hygiene in handling workers on the job are treated—especially aggressiveness and competition, and the place of the individual in the group.—*W. L. Wilkins* (Notre Dame).

4791. **Giles, G. H. Optical service in industry.** *Diopt. Rev. & Brit. J. physiol. Optics*, 1942, 3, 1–13.—Some aspects of vision in industry are discussed mainly as they are related to errors of refraction, with stress on the need for attention to such errors. The results of surveys of various industries are presented, together with figures showing increased production following provision of glasses. Illumination as an influence on visual efficiency, efficient ocular protection in industry, defective color vision as a handicap in certain industries and professions, optical service, and the role of the industrial medical officer are also considered important factors. The Factory Scheme of the Joint Council of Qualified Opticians (J.C.Q.O), which takes into account optical, medical and physical factors, is outlined. 20-item bibliography.—*S. H. Bartley* (Nav. Air Train. Base, Pensacola).

4792. **Hanvik, J. E. Luftfahrt-Forschungsanstalt München, Medizinisches Institut Garmisch-Partenkirchen.** (The Munich Aviation Research Establishment, Medical Institute of Garmisch-Partenkirchen.) (1945; Publ. Bd., No. 124.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. 10c, mimeo.—Brief accounts are given of research projects in aviation medicine at the Medizinisches Institut, which was established by W. Henschke in 1942 at Berlin University, subsequently transferred to Garmisch-Partenkirchen. Types of research include: (1) visual capacity in relation to aiming devices and sites, (2) trigger mechanisms for guns and turrets, (3) psychological tests for aircrew selection, (4) use of drugs (benzedrine, caffeine, and narcotics) to improve physical performance and induce euphoria in assault troops and rammer fighters, (5) high altitude adaptation: increased altitude tolerance by 1,500 to 2,000 m., (6) ultraviolet and infrared rays: problems in relation to gun sites, (7) philosophical aspects of aviation medicine, (8) capillary stability in relation to pilot fatigue, and (9) eye prothesis and extremity prothesis: conversion of visual to auditory stimuli; electro-mechanical prothesis directed by impulses from amputated nerves.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4793. **Hoffman, A. C. The relationship between eyepiece diopter settings and stereo range settings.** (OSRD, 1943; Publ. Bd., No. 20831.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—The results are reported of a preliminary investigation and an experiment to determine the relationship of diopter settings of the eyepieces to subsequent scores of stereo ranging on a stationary target in the Mark II Navy trainer. Investigation was made with 82 trainees of the Advanced Fire Control School in Washington who had no previous experience with stereoscopic instruments. The purpose of the experiment was to determine whether the relationship is close enough to warrant using knowledge of diopter settings to select stereo rangefinder operators. Diopter setting scores were correlated with average and variability scores of stereo performance. The correlation coefficients computed were found to be low (.008 to .303) and may be regarded as significantly greater than zero only in the instance comparing variability of stereo performance and the difference between average diopter settings of the two eyes.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4794. **Hudson, B. B., & Searle, L. V. Description of the Tufts tracking trainer.** (OSRD, 1944; Publ. Bd., No. 20287.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 20. $0.50, microfilm; $2.00, photostat.—This report describes a tracking trainer built as an experimental instrument for studying antiaircraft tracking problems which occur in the operation of the Army director M7 (or M4). It is similar in external appearance and general dimensions to the director and duplicates those characteristics which are essential to the tracking operations, e.g., positions of handwheels and eyepieces, handwheel ratios and torque, rotation of instrument case and telescopes, etc. An ink-recorder and clock score provide immediately available measures of performance, that are useful from an instructional and a research point of view.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4795. **Hunter, W. S. Study of combat leadership.** (OSRD, 1944; Publ. Bd., No. 22918.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—This memorandum reports work done by H. E. Garrett and E. M. Ligon on examining the present procedures for determining combat leadership of men in officer candidate classes. The procedures at the Infantry School at Fort Benning and the Field Artillery School at Fort Sill were studied. In conclusion it is stated that the OCS method of evaluating the degree to which a man possesses leadership qualities seems to be too impressionistic and is perhaps too "clinical." However the combined judgment of candidates, platoon leaders, company commander, and very often the officers' board probably results in the selection of the best candidates and in the rejection of most of the misfits. (See **20:** 4789.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4796. **Imus, H. A. Manual for use in the selection of fire controlmen (O).** (OSRD, 1944; Publ. Bd., No. 18332.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 101. $1.50, microfilm; $7.00, photostat.—This report consists of a manual for use in the selection and classification of naval personnel for training as stereoscopic rangefinder operators. Only men who meet specified qualifications are sent to the vision testing center. The manual is concerned with this testing. It contains directions for the organization, equipment, and procedure of a

testing unit in a Naval Training Center or Naval Receiving Ship. Detailed instructions for the administration of the various tests and for the reporting of results are also presented. The 3 types of equipment used in testing were: the Ortho-Rater, to test visual acuity and heterophoria; the interpupillometer; and the multiple-projection eikonometer.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4797. **Jaques, E. L., & Crook, I. The personality makeup of emotionally unstable soldiers in relation to occupational adjustments.** *J. clin. Psychol.*, 1946, 2, 221–230.—An unstable soldier's occupational adjustment depends more on his personality make-up than on his symptoms or diagnosis. To test this hypothesis, 150 neurotic and psychopathic soldiers, downgraded to base-unit jobs because of psychiatric disabilities, were studied intensively. Detailed case histories, those secured by the authors as well as those secured by the psychiatrists, were analyzed according to 24 of Murray's needs. The men were rated for occupational adjustment and for the relative importance to them of 8 occupational factors, such as interest in or familiarity with the work, associated with satisfaction in their work. Five classes of soldiers were found in terms of their personality-need patterns. The factors which were most important to each group in determining the satisfactoriness of its base-duty occupations were then studied. The results of this study supported the initial hypothesis.—*L. B. Heathers* (Univ. Washington).

4798. **Jeju, V. G. Consideratiuni asupra organizării stiintifice a munci—Taylorismul.** (Considerations of the scientific organization of work—Taylorism.) *J. Psihoteh.*, 1940, 4, 17–32.—A historical introduction to Taylorism is given, based on a widespread project organized in Roumania between the 2 wars by Rădulescu-Motru. (See also 14: 5684.)—(Courtesy *Année psychol.*).

4799. **Johnson, A. P., & Kemp, E. H. Psychological research on bombardier training: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 18676.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 353. $4.00, microfilm; $24.00, photostat.—The historical background of bombing and bombardier training is presented with a discussion of the development of psychological criteria for the selection and training of AAF bombardiers. Selection of instructors and a survey of instructor proficiency, together with research on the development and administration of tests on the ground and in flight, have all contributed to the development of standardized bombardier training. Samples of the Bombardier Phase Check and Bombardier Proficiency Tests are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4800. **Johnson, H. M., & others. On the actual and potential value of biographical information as a means of predicting success in aeronautical training.** (CAA, Airman Develop. Div., 1944; Publ. Bd., No. 18684.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 53. $1.00, microfilm; $4.00, photostat.—This is a report of a study of the value of intercorrelated items of biographical information, compiled from medical and training records of 480 students at the U. S. Naval Air Station, Pensacola, Fla., as predictors of eventual success or failure in the course and also as predictors of speed of learning. The value of the tests in determining the slow learners was found to be considerably less than for determining potential failures. The analysis disclosed that there is only a very slight tendency for students who require extra time in the earlier stages to require more extra time than the average students required in later stages. (See also 20: 4787, 4831.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4801. **Kalez, M. M., & Hovde, R. C. Fatal aviation accidents.** *J. Aviat. Med.*, 1946, 17, 234–243; 264.—The authors have collected pre- and post-crash data on 3,000 pilots in an effort to identify factors contributing to fatal aircraft accidents. They find that the incidence of death from aviation accidents is 4 times greater among pilots with previous repeated "pilot inaptitude" accidents, 7 times greater among pilots with below average flight training records, and 14 times greater among pilots with both below average flight training records and previous repeated pilot inaptitude accidents than among pilots who do not fall into these categories. Reassignment of pilots with both poor training and accident-prone records has resulted, in one command, in a reduction in fatal accidents from 2.51 to 0.52 per 10,000 hours.—*A. Chapanis* (Johns Hopkins).

4802. **Kappauf, W. E. Need for a check sight on the Mark 15 gun sight and on all sights of a similar nature.** (OSRD, 1944; Publ. Bd., No. 16454.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 2. $0.50, microfilm; $1.00, photostat.—The purpose of this memorandum was to point out that the Mark 15 gun sight then in production included no check sight and to call attention to the fact that some provisions for check sighting on this gun sight must be made if training in the operation of this new equipment, especially shipboard training, was to be effective. Requirements for a check sight specified that: (1) it should be an integral part of the Mark 15 gun sight and that consideration should be given to redesigning the telescope in the gun sight so that the check sight could be introduced in the telescope axis between the reticle and eye piece; (2) it must be so mounted that an instructor can use it at any angle of elevation of the director; and (3) it must be so mounted that the instructor can easily stand clear of the director.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4803. **Kappauf, W. E. Suggestions for the design of production models of the Mark 15 gun sight and the Mark 52 director.** (OSRD, 1944; Publ. Bd., No. 16455.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 3. $0.50, microfilm; $1.00, photostat.—Suggestions on the design of this gun sight and director are made based on training the first two combat crews to man them. A brief de-

scription of the background of each suggestion is given.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4804. **Kappauf, W. E. Notes on the desired characteristics of trainers.** (OSRD, 1945; Publ. Bd., No. 16456.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $0.50, microfilm; $1.00, photostat.—This memorandum on the principal characteristics desired for training devices lists three general types of trainers: trainers which deliver a synthetic signal to a piece of real equipment, as the gunnery trainers Marks 3 and 5, the radar trainer Mark 1, and the proposed trainer for the gun directors Marks 57 and 63; trainers which are completely synthetic and which simulate some part or parts of the real situation or the real job, as the gunnery trainer Mark 1 and the stereoscopic trainers Marks 2, 4, 6, and 7; and real instruments similar to the one on which the real job is later to be performed. The following principles relative to the design and preparation of a trainer were advocated by this memorandum: (1) The trainer must be valid; i.e., it must accomplish real training, as demonstrated by experimental test. (2) The trainer must have a scoring device and one which is as reliable as possible. (3) Realism of the trainer's scores must be sacrificed when necessary in the interest of obtaining scores which differentiate men and distinguish clearly between different levels of ability. (4) The trainer situation must be such that there will be little difficulty in motivating men to use the equipment.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4805. **Kappauf, W. E. Notes on the design of phototube scoring devices for tracking trainers.** (OSRD, 1945; Publ. Bd., No. 16457.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—In connection with an analysis of the scoring device incorporated in the pilot model of the gunnery trainer Mark 5, the following general principles were formulated for the design of phototube recording systems designed for use in trainers where a single operator tracks or aims in both train and elevation: (1) The radius of the circle within which the man is scored as being "on target" should be approximately 1.13 times the average tracking error of the group within which maximum differentiation is desired. (2) The scoring system should be so designed that sensitivity changes are minimized. (3) The radius of phototube aperture and target image should be made equal in order to minimize the effects of scoring sensitivity changes. (4) The initial sensitivity of the system and image brightness should be so adjusted that the area of initially required overlap of target image and aperture is as small as possible relative to the radius of the scoring circle. (5) The reliability of a scoring system should be demonstrated by actual test.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4806. **Kappauf, W. E. Summary of research on psychological problems in the operation of anti-aircraft lead computing sights and directors.** (OSRD, 1945; Publ. Bd., No. 16459.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—In this final summary of research work, section I covers the origin and history of the project. Section II describes the work of the project and outlines what was accomplished in the course of work with the several gun sights and director systems which were studied. Section III lists the project's reports and memoranda. Section IV lists the project personnel. Section V summarizes the project invention reports.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4807. **Katona, G. Psychological analysis of business decisions and expectations.** *Amer. econ. Rev.*, 1946, **36**, 44–62.—The general approach in this article is to describe psychological principles, primarily from the Gestalt point of view, and to apply these to business situations. The hypotheses thus drawn are tested for plausibility by some empirical studies which the author made. The principles involved are drawn from the field of learning: "there are two ways of learning: through repetition and through understanding." Repetition is applied to routine business actions and understanding to new decisions and actions, and examples are given. Expectations based upon understanding are stronger than those founded on repetition. "Expectations tend to change infrequently, radically, and simultaneously" as various data are integrated into a new context. The concept of expectations is expanded to include a discussion of elasticity of expectations and illustrations of the points made.—*H. F. Rothe* (Stevenson, Jordan & Harrison, Inc.).

4808. **Killinger, G. G., & Zubin, J. Psychobiological screening procedures in the War Shipping Administration.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 559–569.—Trainees surviving screening at enrolling offices completed a personality inventory consisting of about 80 items, supplemented by a personal history consisting of 30 items. Those giving 20 or more abnormal answers were scheduled for brief personal interviews. The grossly abnormal were referred to the Psychobiological Unit for more thorough study, making use of all available data from other medical and personnel sources. The milder deviants were required to return for follow-up therapy for several weeks. Results indicate that 85% of those who eventually must be disenrolled are caught by the screen, 12% escape through misrepresentation, and 3% develop personality involvements after admission to the service. The paper is one of a conference series on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4809. **Knauft, E. B. The precision of internal adjustment settings of the Mark 42 rangefinder.** (OSRD, 1944; Publ. Bd., No. 18321.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $0.50 microfilm; $1.00, photostat.—The internal adjustment of the stereoscopic rangefinder is of primary importance in obtaining accurate range readings. Although experienced rangefinder personnel consider

that a series of internal adjuster settings should have a spread of less than 1 UOE, no experimental studies have been undertaken to determine the precision with which naval personnel actually make these settings. The research was undertaken to determine the range of internal adjuster settings made by student rangefinder operators using the usual stereoscopic methods. It was found that 18 advanced rangefinder students made a series of 5 internal adjuster settings in the course of routine operations, with an average range of 2.50 UOE and an average standard deviation of 1.10 UOE. To ascertain whether students make more precise readings in an experimental situation where greater care was used in recording the settings, 6 men made a series of stereoscopic internal adjuster settings. Although the mean range and mean standard deviation of this experimental group of 6 men were less than the same measures for the 18 men, a significant difference was not demonstrated. (See also 20: 4811.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4810. **Knauft, E. B. The accuracy and precision of student operators' zero-sets on the Mark 4 radar.** (OSRD, 1944; Publ. Bd., No. 18322.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—Information is presented concerning the accuracy and precision with which 92 student operators in various stages of training made zero-sets on the Mark 4 radar by a standardized procedure. It was found that: (1) the median error of student operators' zero-sets does not differ significantly from an error of zero (no error); (2) advanced student operators do not make significantly smaller errors in zero-set than beginning students, but the advanced students' zero-sets are less variable than those of the beginning students, and the advanced students require about 10 min. less time to make a series of 5 zero-sets than do beginning students; and (3) although statistically significant individual differences in students' median zero-sets are demonstrated, the differences are so small that they have no practical significance in the operation of the Mark 4 radar set. These results indicate that student radar operators make the zero-set with satisfactory accuracy and precision and that there are no changes necessary in present training methods as shipboard procedures for this adjustment.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4811. **Knauft, E. B. The precision of internal adjustment settings by student operators and experienced operators on stereoscopic rangefinders.** (OSRD, 1944; Publ. Bd., No. 18329.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $0.50, microfilm; $1.00, photostat.—When records of series of internal adjustments made by student operators were analyzed, it was found that: (1) 81 student operators of Mark 42 rangefinders attained a mean range or spread of internal adjustment settings of 2.27 UOE; (2) learning, as measured by an increase in precision in making internal adjustments, occurred from the first to sixth week of training on Mark 42 range finders; (3) 12 experienced shipboard rangefinder operators, each making from 63 to 75 series of internal adjustment settings, obtained a mean range of 1.37 UOE; and (4) the revised procedure in making internal adjustment enabled the student operators to increase the precision with which they made the setting. (See also 20: 4809.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4812. **Kryter, K. D. The effect of voice intensity of the output voltage of various microphones.** (OSRD, 1944; Publ. Bd., No. 22556.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $0.50, microfilm; $1.00, photostat.—Since military microphones are sometimes employed to measure or monitor the intensity of the voice used in interphone or radio communication, it is of interest to determine to what extent the voltage generated by these microphones is directly proportional to voice level. This experiment was designed to test the linearity of various microphones as a function of voice intensities ranging from a whisper to a shout. The measurements demonstrate that magnetic microphones respond linearly to increasing voice intensities, whereas the relative voltage output from carbon microphones grows progressively smaller as the level of the voice is raised. In this respect, however, carbon microphones differ widely among themselves. The most linear is the noise-canceling lip microphone; the most nonlinear is the T-30 throat microphone. A schematic diagram of the equipment used is included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4813. **Kryter, K. D., & others. The combined effects of clipping the peaks of speech waves in an ATB transmitter and limiting static peaks in an ARB receiver.** (OSRD, 1945; Publ. Bd., No. 19806.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—The purpose of the experiment described in this report was to determine the combined effects upon the intelligibility of speech of (1) increasing the audio voltage gain and clipping the peaks of speech prior to transmission over an ATB transmitter and (2) limiting static peaks with the Wasmansdorff half-wave limiter, or clipper, in an ARB receiver. A number of work articulation tests were performed to test the clipping effect in transmitter and receiver. The noise limiter and peak clipping greatly improves reception in the presence of static. Possible improvements and further testing are suggested.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4814. **Kryter, K. D., & others. Advantages of clipping the peaks of speech waves prior to radio transmission.** (OSRD, 1944; Publ. Bd., No. 22859.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 31. $0.50, microfilm; $3.00, photostat.—The purpose of this study was to evaluate, by articulation testing methods, the effects of the peak clipping of speech prior to radio transmission. The speech

signal was transmitted by a radio frequency carrier wave, amplitude modulated, and then detected with a standard radio receiver. Tests were performed in the quiet, in an ambient airplane noise of 120 db intensity, and in the presence of static interference. At weaker signal levels, intelligibility was increased by pre-clipping.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4815. **Kryter, K. D., & others. Speech transmission through six military gas masks.** (OSRD, 1944; Publ. Bd., No. 27305.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $1.00, microfilm; $1.00, photostat.—A description is given of person-to-person articulation tests and of tests of U. S. Navy gas masks used with sound-powered telephone equipment, conducted with 6 military gas masks. Structural differences among the gas masks and attenuation of speech by these gas masks are discussed.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4816. **Lepley, W. M. Psychological research in the theatres of war: preliminary draft.** (AAF, Aviat. Psychol. Program, [1946]; Publ. Bd., No. 18680.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 372. $4.00, microfilm; $25.00, photostat.—The activities are reported of 4 psychological research detachments sent into the theatres of war to gather combat criterion data against which to validate the tests and procedures of the Selection and Classification Program, and to collect information on the requirements of the tasks of combat airmen in order to keep training standards apace with requirements. There is a special chapter on the measurement of fighter pilot proficiency in relation to the prediction of fighter combat proficiency and the result of fatigue factors in long-range missions. The development of proficiency tests for aircrew specialization, including the development of lead crew aptitude tests for the use of theatre personnel, is discussed.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4817. **Licklider, J. C. R. Effects of amplitude distortion upon the intelligibility of speech.** *J. acoust. Soc. Amer.*, 1946, **18**, 249.—Abstract.

4818. **Licklider, J. C. R., & Newman, E. B. Field tests of premodulation clipping in the transmitter of a type 19 wireless set.** (OSRD, 1945; Publ. Bd., No. 19809.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—Field tests are described on the use of an audio "peak clipper" inserted ahead of the modulator of a Type 19 (Canadian) MK III wireless set. They resulted in a marked improvement in range and intelligibility. Essentially the principle of the peak clipper unit is to improve the efficiency of modulation by removing the high-amplitude parts of the speech wave before that wave is used to modulate the carrier. With optimal adjustment, the unit provided usable communication under conditions which entirely prevented voice communication with the unmodified 19 set.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4819. **Licklider, J. C. R., & Ross, D. A. Voltage gain and power-output capability requirements for high-altitude interphone amplifiers.** (OSRD, 1944; Publ. Bd., No. 22911.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 64. $1.00, microfilm; $5.00, photostat.—This report presents data of 3 types: (1) the results of articulation tests comparing several voltage-gain conditions as they influence interphone performance; (2) the results of subjective comparisons of the voltage gains in terms of the effectiveness of interphone communication; and (3) the observations of the test supervisors who used various gain conditions during conversations with the pilots, while making "oxygen checks" on the articulation crew, and during several minor emergencies. The 3 sources of evidence indicate the voltage gain should be approximately 30 db, at 35,000 ft., when an amplifier is used in conjunction with carbon mask-microphone ANB-M-Cl and low-impedance magnetic earphone ANB-H-1. Supplementary experiments were conducted in a high-altitude chamber, and the results corroborate the above findings.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4820. **Licklider, J. C. R., & others. A premodulation clipper unit for voice-communication transmitters.** (OSRD, 1945; Publ. Bd., No. 19807.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 18. $0.50, microfilm; $2.00, photostat.—A description is given of the design of a premodulation clipper suitable for incorporation into service radio transmitters. The circuit described illustrates one of a number of ways in which the basic idea can be reduced to practice. In each particular application, the characteristics of the transmitter into which the principle is incorporated will influence the design of the premoduation clipper to a considerable extent. The clipper, as applied to an AM transmitter, performs 3 basic functions: (1) It provides peak clipping which removes the high-amplitude parts of the speech wave before the wave is used to modulate the carrier. (2) It provides low-pass filtering which eliminates undesirable high-frequency components of the clipped speech wave. (3) It introduces amplification, additional to that of the normal audio section of the transmitter, which produces full modulation of the carrier with what is left of the speech wave after clipping. Details of design and operation and methods of testing are given.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4821. **Licklider, J. C. R., & others. Articulation tests of the Wasmansdorff noise-peak limiter.** (OSRD, 1944; Publ. Bd., No. 22857.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 56. $1.00, microfilm; $4.00, photostat.—Tests have been conducted to evaluate the effectiveness of a noise-peak limiter designed for use with Naval radio receivers to reduce the detrimental effects of static. The Wasmansdorff half-wave limiter was tested in an ARB Naval aircraft receiver. It is designed to clip the audio wave at 0 predetermined amplitude level. This level is adjusted so that, in the absence of

interfering noise, only the extreme peaks of the speech signal are affected. Intelligibility was markedly improved in tests with static as the only interfering noise. The limiter was not effective when a considerable amount of low-peak-factor noise was present in the received signal.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4822. **Lindsley, D. B., & others. A radar trainer and flash reading method for operators of the Plan Position Indicator.** (OSRD, 1944; Publ. Bd., No. 18334.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 18. $0.50, microfilm; $2.00, photostat.—An optical mechanical radar trainer and a flash-reading method of training in plot reading and target location are described. The trainer simulates the scope presentation of the PPI (see **20:** 4549) and momentarily flashes target echoes or signal blips whose locations may be read in terms of either polar or grid co-ordinates. The flash-reading method stresses speed and accuracy of performance and is organized so as to train the radar operator and plot reader to perform at levels of proficiency expected in actual combat operation. The trainer and flash-reading method permit standard conditions of training and objective methods of scoring proficiency during training. Experimental studies of the use of the trainer and flash-reading methods are reported. Sixty men were trained in reading blip locations for 10 days and showed an average improvement in accuracy of approximately 100%. Learning curves show that both good and poor operators make marked improvement with training. The method is shown to have good reliability as a performance measuring and training device. Performance on the trainer shows fairly high correlations with oscilloscope operator tests.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4823. **Lindsley, D. B., & others. A validational study of oscilloscope operator tests.** (OSRD, 1944; Publ. Bd., No. 18359.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $0.50, microfilm; $1.00, photostat.—Thirteen oscilloscope operator tests were given in 8 operating stations under Army Air Forces Tactical Center, Orlando, Fla. The Plot Reading, Scale Reading, and Polar-grid Co-ordinate tests were found to be good predictors of performance in Early Warning and Chain Home Link stations. Plot Reading, Scale Reading, and Course Location tests proved to be exceedingly good predictors of performance in the Ground Control Interception stations. The Coordinate Reading and Ratio Estimation tests have possible application as achievement tests.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4824. **Lindsley, D. B., & others. The effect of extraneous illumination upon detection of signals on an A-scan oscilloscope.** (OSRD, 1944; Publ. Bd., No. 18360.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, photostat.—Adding illumination to the scope face produced neither improvement nor deterioration of signal detection ability.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4825. **Lindsley, D. B., & others. Memorandum on recommendations for the use of Foxboro Trainer (BC-968).** (OSRD, 1943; Publ. Bd., No. 18361.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 12. $0.50, microfilm; $1.00, photostat.—An earlier study (see **20:** 4282) was concerned with the study of the Foxboro Trainer as a training device for learning to track by means of pip matching. This memorandum is concerned with the problem of putting the trainer into operation; calibrating the trainer so that Veeder scores may be translated accurately into average degrees of error; operation; and motivation.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4826. **Lindsley, D. B., & others. Use of the Philco trainer in the training of A-scan oscilloscope operators.** (OSRD, 1943; Publ. Bd., No. 18363.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 27. $0.50, microfilm; $2.00, photostat.—The Philco trainer was designed to feed signals into the actual indicator units of SCR 270–71 radar equipment, but it may be readily adapted for use with other types of A-scan radar. It may be made to control as many as 20 oscilloscope units, producing simultaneously on the screen of each a variety of synthetic target representations as well as other conditions which closely simulate operation of the actual equipment in the field. By means of controls mounted on the panel of the trainer, it is possible to produce upon the screen of each oscilloscope the following: a main pulse; 1 to 3 target echoes variable in height, width, "bobbing," and range; baseline noise or "grass"; interference; and different rates of azimuth scanning or echo maximization. The purpose of this study was: to determine the effectiveness of the Philco Trainer as a training device; to evaluate the effect of training on proficiency in determining azimuth by judging maximization of echoes, ranging, and detection of minimal target echoes; to determine the length of training in order to reach a given level of proficiency; and to determine the consistency of performance. The effective use of the trainer seems to be contingent upon (1) giving students a proper understanding of the elements of the task as well as their significance, (2) accurately measuring performance, and (3) providing students with a knowledge of their daily performance.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4827. **Lindsley, D. B., & others. A study of the SCR-584 basic trainer as a tracking device for learning range tracking.** (OSRD, 1944; Publ. Bd., No. 18364.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 15. $0.50, microfilm; $1.00, photostat.—The trainer is a light-weight, mechanical optical device which simulates the J-scan, 2000-yard range scope of the SCR-584 radar set. The experiment was designed to determine the value of the trainer as an aid in improving the tracking ability of the uninitiated subject at various stages of practice.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4828. **Lindsley, D. B., & others. Comparison of range tracking methods: tracking to a fixed hairline**

versus tracking to a rotating hairline. (OSRD, 1944; Publ. Bd., No. 18374.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $0.50, microfilm; $1.00, photostat.—Experimental investigations involving comparisons of tracking with 2 methods of presentation on the J-type oscilloscope used in range tracking on the SCR-584 set are described. The study demonstrated the superiority of the method of tracking to a fixed hairline over that of tracking to a rotating hairline, but the degree of superiority was not believed to be sufficient to warrant a major change in the design of the range tracking of the SCR-584.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4829. **Lindsley, D. B., & others. A study of performance under speed stress.** (OSRD, 1945; Publ. Bd., No. 18381.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 10. $0.50, microfilm; $1.00, photostat.—A reporting test, which required rapid discrimination and counting of figures in a series of circles resembling oscilloscope screens, was used. In terms of the experiment, it appears that there may be 2 reactions to speed stress: (1) an increase in speed and errors with relative inefficiency and (2) stable performance and efficiency with little increase in speed and errors. The results suggest that individuals showing the latter type of reaction constitute a small group and might be recommended for critical tasks where errors may be expensive in personnel and equipment. Individuals whose reactions are of the former type might be used for tasks emphasizing speed but not requiring great accuracy.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4830. **McFarland, R. A. Human factors in air transport design.** New York: McGraw-Hill, 1946. Pp. xix + 670. $6.00.—The present volume is the first complete treatise on the topic to be published. All aspects of air transportation are considered from ground-crew maintainance and air-crew efficiency to passenger comfort. In order that human factor problems may be seen in their proper engineering setting, extensive information is presented on the matériel and meteorological factors to be considered in the design and operation of aircraft. The chief topics considered are as follows: high altitude operations; the control of ventilation, temperature, and humidity; the control of insects and air-borne diseases; noxious gases; the control of noise and vibration; acceleration, motion, and flight performance; cockpit and control cabin design; passenger accommodations; and the prevention of accidents. This latter topic is particularly illuminating because of the role of the human factor in accidents. Improvement in the "functional relationship between man and the machine in air transportation will be largely dependent on (1) a successful application of scientific thinking with regard to human factors, (2) a clearer definition and isolation of the variable under investigation, (3) a reduction in the time lag between research and its application, and (4) a distinction between basic and merely corrective applications of design for human requirements." Bibliography.—*W. S. Hunter* (Brown).

4831. **McFarland, R. A., & Franzen, R. The Pensacola study of naval aviators: Final summary report.** (CAA, Div. Res., 1944; Publ. Bd., No. 18683.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 141. $1.50, microfilm; $10.00, photostat.—The history and major findings of this study are summarized in this report, except for the investigation of biographical items as predictors, which is given in a separate report (see **20:** 4800). This investigation involved the administration of a large number of psychological and physiological tests to approximately 1,000 cadets and officers in order to determine whether certain of these tests would differentiate the successful pilots from the washouts. A description is given of the experimental procedure, the psychological and physiological tests and measures used, and the groups employed in the investigation. Only such general statistical data as are necessary for an evaluation of these instruments as predictors of flight success are discussed. (See also **20:** 4787.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4832. **Miller, G. A., & Mitchell, S. Effects of distortion on the intelligibility of speech at high altitudes.** *J. acoust. Soc. Amer.*, 1946, **18**, 250.—Abstract.

4833. **Morrisby, M. A. Some problems of discharged service personnel in their adjustments to civilian life.** *Bull. industr. Psychol. Personnel Pract., Melbourne*, 1945, **1**, 6–13.—The types of non-psychotic difficulties likely to be found in discharged service personnel are reviewed. Much of the material is quoted from English and American sources.—*F. K. Berrien* (Colgate).

4834. **National Research Council, Committee on Selection and Training of Aircraft Pilots. Report on CAA—National Testing Service: Phase I, June 20, 1942–Aug. 2, 1942; Phase II to IV, Aug. 3, 1942—Jan. 31, 1943; and Summary of test results and comparisons with success in flight training.** (CAA, Div. Res., 1943–44; Publ. Bd., Nos. 18688, 18690, 18691.) Washington, D. C.: U. S. Dep. Commerce, 1946. Phase I: Pp. 24. $0.50, microfilm; $2.00, photostat. Phase II to IV: Pp. 28. $0.50, microfilm; $2.00, photostat. Summary: Pp. 101. $1.50, microfilm; $7.00, photostat.—During the periods listed above, screening tests were given to over 70,000 candidates for flight instruction. The basic tests used were: (1) inventory of personal data for prospective pilots, (2) mental alertness test, and (3) a mechanical comprehension test. Details on the distribution of passers and failers in relation to education, geographical location, age, previous flight training, etc. are presented and discussed. The summary contains brief descriptions of the tests; an analysis of the test results; an analysis of the screening battery in relation to performance in primary flight training; tables showing distributions of test scores, flight hours, and ages of subjects for phases I–IV; and tables for criterion study. (See also **20:**

4835.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4835. **National Research Council, Committee on Selection and Training of Aircraft Pilots. Report on CAA—National Testing Service: Previous flight training and flight training preferences as related to pilot screening test scores.** (CAA, Div. Res., 1944; Publ. Bd., No. 18689.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 73. $1.00, microfilm; $5.00, photostat.—This analysis had 2 chief purposes: (1) to determine the extent to which applicants expressing a preference for glider training differed in their test scores from those expressing a preference for primary or secondary flight training and (2) to analyze the relationship of previous flight training to these test scores. It was found that there was a very large degree of overlap in the test scores of all groups. In view of this overlap, such differences as were noted have little practical significance. (See also 20: 4834.)—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4836. **Odbert, H. S., & others. "Ability-to-take-it" tests: examiner differences and validation.** (CAA, Div. Res., 1945; Publ. Bd., No. 18686.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 43. $0.50, microfilm; $3.00, photostat.—The present study, which was undertaken to validate 2 tests measuring resistance to pain and fatigue as predictors of success in flight training, revealed such large examiner differences that satisfactory validation was not possible. This report therefore places major emphasis on the analysis of differences in scores obtained by 5 examiners in administering 2 tests of resistance to fatigue and pain. The report concludes with validation data for the cases tested by 2 examiners. The general conclusion of the study was that "ability-to-take-it" tests could not predict the criteria employed in elimination from flight training. Instructions for administration of the tests (hand dynamometer and constant stimulus shocker) are given in appendices.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4837. **Otis, J. L. The Personnel Research Institute of Western Reserve University.** *J. consult. Psychol.*, 1946, **10**, 131–135.—*S. G. Dulsky* (Personnel Inst., Chicago).

4838. **Oxlade, M. An experiment in the use of psychological tests in the selection of women trainee telephone mechanics.** *Bull. industr. Psychol. Personnel Pract., Melbourne*, 1946, **2**, 26–32.—A battery of 7 tests was administered to 33 women trainee telephone mechanics. Results on the Otis Higher Examination, Raven's Progressive Matrices (20 min. time limit) and the A.C.E.R. Mechanical Comprehension Test were found to be related to success in examinations held at the conclusion of training. If existing employment procedures were supplemented by the more objective results of these tests, the selection of women for this type of training could be made efficient.—*F. K. Berrien* (Colgate).

4839. **Pinson, E. A. Dark adaptation in Army Air Corps pilots.** (AAF, Exp. Engng Sect., 1941; Publ. Bd., No. 5110.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 4. $0.50, microfilm; $1.00, photostat.—Dark adaptation tests were carried out on 30 commissioned Air Corps officers, ranging in ages from 20 to 50 years. The Hecht-Shlaer adaptometer and technique of measurement were employed. The logarithm of threshold intensity (micromicrolamberts) at the end of a 30-minute dark adaptation period indicates that some degree of dark adaptation deficiency was generally prevalent in subjects over 40 years of age.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4840. **Pinson, E. A. Dark adaptation in Army Air Corps personnel.** (AAF, Exp. Engng Sect., 1941; Publ. Bd., No. 5117.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, photostat.—Two hundred four Air Corps officers and enlisted men stationed at Langley Field, Va., were subjects of a study to determine the night visual efficiency of U. S. Army Air Corps pilots and combat crew members. The dark adaptometer described by Hecht and Shlaer (see 13: 5456) was used. Graphs and tables indicate average dark adaptation, average values for officers and enlisted men, and relation between minimum cone thresholds and minimum rod thresholds.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4841. **Pinson, E. A. Army Air Forces—Eastman Night Vision Tester (Model 2).** (AAF, Engng Div., 1943; Publ. Bd., No. 6947.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $0.50, microfilm; $1.00, photostat.—The report covers the training of Flying Training Command personnel in the operation of the subject tester and the proper administration of the night vision test. The score distribution of 228 cadet applicants is plotted in Appendix 1. Appendix 2 is a discussion on the size of character used in the test.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4842. **Psychological Corporation. A speech interview for the selection of telephone talkers.** (OSRD, 1943; Publ. Bd., No. 12146.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 24. $0.50, microfilm; $2.00, photostat.—A speech interview was developed for the purpose of selecting telephone talkers for a ship. This interview was made to include samples of different kinds of speech, memorized material, impromptu descriptions, repetition, and reading. Tables of data and rating sheet are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4843. **Randall, F. E., & Damon, A. Facial surveys of aviation cadets and other flying personnel.** (AAF, Exp. Engng Sect., 1942; Publ. Bd., No. 6938.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $0.50, microfilm; $1.00, photostat.—Reports are given of a facial survey of 1,454 aviation cadets and a supplementary facial survey of 198, all Army Air Forces personnel. These 2 surveys furnish data readily available for problems of design and size standardization of head and face equipment, such as oxygen masks, flying helmets, and goggles.

Appendices give: (1) size of series, mean, and range for each measurement and (2) measurements taken and technique employed.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4844. **Rieffert, J. B. Tests for selection of personnel in German industry.** (Naval Tech. Mission in Europe, 1945; Publ. Bd., No. 22933.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 54. $1.00, microfilm; $4.00, photostat.—The German War Department made extensive use of the services of psychologists in the selection of officer personnel and in the selection of individuals to serve as specialists. Psychologists were widely used in industrial organizations for the selection and placement of personnel. This report presents information regarding the tests and techniques employed during the war at the Rheinmetall-Borsig plant by J. B. Rieffert, chief psychologist. The tests are described briefly. The major portion of the report is the appendix consisting of a brief report by Rieffert on his testing program, accompanied by the tests used. These include: directions test, clerical proof-reading test, spatial relations test, test of planning ability, mechanical insight tests, and two-hand steadiness test. An individual report card for the tests and a foreman's rating card for the tests are also included. These and the tests are given in German as well as in translation.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4845. **Rodger, A. Selection tests in industry.** *Industr. Welf. Personnel Mgmt*, 1945, **27**, 142–145.

4846. **Schultz, R. S. How to use personnel tests.** *Personnel J.*, 1946, **25**, 94–99.—*M. B. Mitchell* (New York City, N. Y.).

4847. **Shaw, W. A. A comparison of the acoustic insulation afforded by certain aviation helmets when worn with oxygen masks and goggles.** (OSRD, 1944; Publ. Bd., No. 22915.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—The results of acoustic insulation tests on the NAF 1092 intermediate aviation helmet, on the British aviation helmet type C with the Harvard design 5-B earphone sockets, and on the British type C aviation helmet with the type G earphone fittings, are presented. The report concludes (1) that the British type C helmet with type G earphone fittings affords greater acoustic insulation than the NAF 1092 intermediate aviation helmet and (2) that the Harvard design 5-B earphone socket affords an average of 5.5 db greater acoustic insulation than the British type G earphone fittings when both are tested in the British type C aviation helmet.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4848. **Shaw, W. A., & Yates, D. E. Development of insert tips for use with miniature earphones.** (OSRD, 1945; Publ. Bd., No. 22852.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 30. $0.50 microfilm; $2.00, photostat.—The effectiveness of speech communication is often impaired by the noise which exists in the immediate vicinity of the listener. This noise can be partially combatted by earphone cushions and sockets designed to exclude noise from the listener's ears. The object of the present report is to present another type of device for excluding noise. Because it extends a short distance into the ear canal and because it contains a channel through which sounds emanating from an attached earphone are directed toward the eardrum, the device is called an insert coupler. Photographs of models are shown. Attached to model M-8 is a U. S. Army type R-30 miniature telephone. The earphone attached to model M-9 is an experimental miniature dynamic earphone manufactured by the Permoflux Corporation. A discussion of the sensitivity of the Permoflux MDR-1 and of the Western Electric R-30 extended range earphones when used with the Harvintip is presented. Appendix I described the development of the Harvintip; Appendix II, the construction of a single-cavity laboratory mold for the model M-7 Harvintip.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4849. **Shaw, W. A., & others. An evaluation of the acoustic insulation and the acoustic sensitivity of the Harvard design 8-C earphone socket.** (OSRD, 1945; Publ. Bd., No. 19808.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 14. $0.50, microfilm; $1.00, photostat.—Improvements in communication result not only from refinements of transmitting and receiving apparatus but also from bettering the earphone sockets by which the received intelligence is conveyed to the listener's ear. This report describes the development of the Harvard design 8-C earphone socket, designed for use in headsets. Tests of its acoustic insulation and sensitivity were conducted, and it proved equal or superior to other sockets. It is molded of neoprene and neoprene sponge and may be easily and cheaply manufactured. It has reduced susceptibility to dirt, grease, and fungus growth.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4850. **Shilling, C. W. A report on sample binocular serial No. 6268, Mark I, model 2.** (Bur. Med. Surg., 1943; Publ. Bd., No. 23045.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 21. $0.50, microfilm; $2.00, photostat.—The results of 3 different experiments led to the following conclusions: (*a*) No significant differences were found between the performance of men using the sample rigid binoculars, made by the Optical & Film Supply Company, and the standard adjustable 7 x 50 binoculars under similar conditions. This conclusion is true not only of men whose focus and IPD approximated those built into the rigid binoculars, but also of those whose focal adjustments were divergent from those of the binoculars. There is evident a poorer performance on the part of men with IPD's markedly divergent from that for which the rigid binocular is set. (*b*) The sample interpupillary distance setting gauge has been found to be a simple and effective method of maintaining IPD setting in proper adjustment. Its use is recommended. (*c*) The focus and IPD adjustments which the average enlisted man makes for his eyes are highly variable

and are not to be relied upon.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4851. **Sonderman, J. B. Validation of personnel specifications for gun stations.** (OSRD, 1945; Publ. Bd., No. 15825.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 11. $0.50, microfilm; $1.00, photostat.—This study was undertaken to obtain data on the validity of the personal characteristics which have been outlined for use in assignment of enlisted men to gun stations. The discussion covers the development and reliability of the criterion, the statistical procedures used, and the results obtained. Correlations are presented between the criterion and Selectometer scores.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4852. **Stalnaker, J. M. How the Army-Navy qualifying test was organized.** *Sch. & Soc.*, 1946, **63**, 348–350.—*R. C. Strassburger* (St. Joseph's College for Women).

4853. **Stevens, S. S., & others. Articulation testing methods, including wordlists for the testing of communication systems.** (OSRD, 1942; Publ. Bd., No. 22916.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 55. $1.00, microfilm; $4.00, photostat.—Methods are described which were used for the evaluation of communication systems, especially when they are employed in the presence of noises such as those encountered in airplanes and other combat vehicles. The report is divided into 3 parts: techniques for the construction and use of articulation tests; the reliability and validity of articulation tests; and key-lists of words used in the construction of articulation tests. An account is included of the methods used in testing, in order that those concerned may be able better to evaluate the results of these investigations.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4854. **Thorndike, R. L. [Ed.] Research problems and techniques: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 23318.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 169. $2.00, microfilm; $12.00, photostat.—This report undertakes to summarize the procedures which were developed and the problems which were encountered in the Aviation Psychology Program of the Army Air Forces, particularly in that portion of it which was concerned with the selection and classification of personnel for aircrew assignment. The sequence of chapters follows in a general way the sequence of operations in test development: job analysis problems and procedures; the invention and refinement of aptitude test forms; problems in determining an adequate criterion; determining the validity of single tests; obtaining composite aptitude scores; problems associated with reliability and reliability determination; problems in correlational analysis; sources and control of error in test scores; and training experiments.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4855. **Tousey, R. Variable density and variable color filters for use with radar screens to preserve dark adaptation.** (Naval Res. Lab. Rep., 1945; Publ. Bd., No. 23136.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 19. $0.50, microfilm; $2.00, photostat.

4856. **Tuck, G. N. The Army's use of psychology during the war.** *Occup. Psychol., Lond.*, 1946, **20**, 113–118.—Scientific psychological methods were adopted in 4 main fields: personnel selection, improvement of working methods and conditions, training methods, and morale and incentive. Psychological methods in personnel selection at primary reception centers, special assignments, and officer selection are described, and other uses of psychological methods are indicated briefly.—*G. S. Speer* (Illinois Inst. Tech.).

4857. **U. S. Army Air Forces. Psychological research on operational training in the Continental Air Forces (preliminary draft).** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 25718.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 658. $14.00, microfilm; $44.00, photostat.—A summary is given of research accomplished on operational training by aviation psychologists in the Continental Air Forces during the latter part of World War II. Research personnel were sent to the headquarters of the 4 air forces to carry on the necessary research in the special fields covered by the individual air forces in their training program. In the First Air Force, attention was directed toward fighter pilots, and a procedure was established for following all students through their entire training program in the First Fighter Command. The emphasis in the Second Air Force was on the training of heavy bombardment crews in the beginning; but as B-29's replaced B-17's and B-24's in the autumn of 1944, the emphasis shifted to very heavy training. The Third Air Force trained some fighter pilots, and it also trained crews on B-17's and B-29's. The Fourth Air Force was concerned largely with training P-38 fighter pilots and with training B-24 crews. From the work done in these 4 headquarters, this volume has been assembled. The first chapters are divided by aircrew specialty, outlining the job requirements, methods for measurement of proficiency in the specialty, and relation of achievement of individuals on selection and classification tests to measured performance on the job. Chapters are devoted to the following: the fighter pilot; photo-reconnaissance pilot; airplane commander; co-pilot; navigators; the bombardier; flight engineer, radar observer; and gunners. One chapter on the crew as a whole then discusses the problem of evaluating a crew as a working team, achieving a common goal, rather than as a collection of specialists. There is also a chapter on the acquisition and retention of aircrew skill, with an account of attitudes of aircrew personnel returned from combat toward further duty. The final chapter summarizes the more important conclusions which came out of the work. Criteria and the validity of stanines and classification test scores are also discussed. The appendix contains rating scales, personal inventory sheets, and questionnaires used for the various groups.—

(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4858. **Verplanck, W. S. Night vision testing of members of crew of the U.S.S. New Jersey.** (Bur. Med. Surg., 1943; Publ. Bd., No. 23072.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—The procedures in testing 2 groups of men by means of an NDRC adaptometer model III using the 10–20–30 procedure and employing a test level of brightness 3.70 $\mu\mu$l are described. The tests were designed with several purposes in mind. Primarily, it was desired to select personnel with superior vision for the L Division which has cognizance of all surface and horizon lookouts. Secondarily, it was hoped to disqualify for night work those men of the gunnery department whose night vision failed to meet certain standards. It was concluded that this testing procedure would be a valuable part of any testing plan which is directed at the proper classification of personnel.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4859. **Viteles, M. S. An investigation of the scoring characteristics of the machine gun trainer, Mark I.** (OSRD, 1945; Publ. Bd., No. 4016.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 9. $0.50, microfilm; $1.00, photostat.—Results are given of an investigation conducted to determine the trainer's scoring characteristics. The trainer consists of a gun firing simulated tracer bullets, a hit recorder, and a motion picture projector for showing three-dimensional pictures of planes in attack flights. It is designed to give synthetic drill in tracer control firing against combat targets. Appendix A gives instructions to men firing the trainer. A schematic and generalized diagram of the trainer is included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4860. **Viteles, M. S. Interviewer's recommendation chart.** (OSRD, 1945; Publ. Bd., No. 4017.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 6. $0.50, microfilm; $1.00, photostat.—The chart presents in visual form the billets aboard ship for which an individual with given qualifications is most adapted. It is designed as a practical aid to classification interviewers in matching the requirements of personnel requiring assignment with requirements of billets to be filled. The particular chart accompanying this discussion is designed for use in assignment of men to gunnery billets.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4861. **Viteles, M. S., & Smith, K. R. Job analysis procedure.** (OSRD, 1943; Publ. Bd., No. 4030.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 24. $0.50, microfilm; $2.00, photostat.—This report presents and describes a job analysis procedure manual and a job analysis form used in the analysis of tasks performed at gun stations. Information obtained from analyses of the steps involved in each job and of the abilities required is used in the training and selection of gunners.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4862. **Viteles, M. S., & others. Psychological principles in the design and operation of synthetic trainers with particular reference to anti-aircraft gunnery.** (OSRD, 1945; Publ. Bd., No. 3619.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 16. $0.50, microfilm; $2.00, photostat.—This report discusses the psychological principles in the design, operation, and use of synthetic trainers with particular reference to antiaircraft gunnery. Appendix 1 presents evaluations and recommendations concerning the following synthetic antiaircraft gunnery training devices: mirror range estimation trainer; portable aiming teacher; multiple forward area sight trainer; Mark VI trainer; Mark III, model 1 and model 2 trainers; Mark IV trainer; and Mark I trainer.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4863. **Viteles, M. S., & others. Learning range estimation on the firing line.** (OSRD, 1944; Publ. Bd., No. 4023.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 20. $0.50, microfilm; $2.00, photostat.—An analysis of the results obtained in training a group of men to estimate when an incoming TBF plane on a torpedo run reached a range of 1,500 yards seems to indicate that men can be taught range estimation on the firing line.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4864. **Viteles, M. S., & others. An investigation of the range estimation trainer, device 5C-4, as a method of teaching range estimation.** (OSRD, 1944; Publ. Bd., No. 4024.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 55. $1.00, microfilm; $4.00, photostat.—An investigation was made to determine the usefulness of the mirror range estimation trainer, device 5C-4, a synthetic training device for providing training in range estimation, as modified for use in instruction in antiaircraft gunnery. After comparing performance of men who received one hour and two hours of drill on the 5C-4 with men who had no training on the 5C-4, it was concluded that there was no evidence that one hour or two hours of training resulted in improved performance in range estimation on the firing line. Complete description of the 5C-4 trainer with illustrations is included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4865. **Viteles, M. S., & others. The 40 mm. gun training and indoctrination of crew.** (OSRD, 1943; Publ. Bd., No. 4026.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $0.50, microfilm; $1.00, photostat.—Instructions are given for the use of a handbook entitled *The 40 mm. Gun: Training and Indoctrination of Crew—Instructor's Handbook.* —(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4866. **Viteles, M. S., & others. Unit lesson plans for 4-day course in 40 mm. gunnery.** (OSRD, 1943; Publ. Bd., No. 4027.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm;

$1.00, photostat.—Prepared by the research staff aboard the U.S.S. Wyoming, the manual of lesson plans described in this report was also adapted to use by shore-based antiaircraft training centers. An outline of the 4-day course, a breakdown of the course in terms of hours of instruction, and a sample schedule are included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4867. **Viteles, M. S., & others. Developments in the use and construction of training aids for 4-day course in 20 mm. gunnery.** (OSRD, 1943; Publ. Bd., No. 4028.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 38. $0.50, microfilm; $3.00, photostat.—This report contains some of the training aids used in teaching 20 mm. gunnery and discusses techniques for their more effective use. Lesson plans are presented incorporating training film, diagrams, angle practice sheets, wall charts, and perspective drawings.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4868. **Viteles, M. S., & others. Unit lesson plans for 4-day course in 20 mm. gunnery.** (OSRD, 1943; Publ. Bd., No. 4029.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 18. $0.50, microfilm; $2.00, photostat.—Unit lesson plans are given to be used in the administration of a standard 4-day course in 20 mm. gunnery, prepared for use at the antiaircraft training and test center, Dam Neck, Va., but suitable for use at other training centers. Objectives, organization, and operation of unit lesson plans are outlined.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4869. **Viteles, M. S., & others. An outline of a four-day 20 mm. course of instruction.** (OSRD, 1943; Publ. Bd., No. 4031.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $0.50, microfilm; $1.00, photostat.—A course of instruction is outlined in the operation of the 20 mm. gun. Also included is a sample of the instruction outline for one unit, "Orientation to Tracer Firing Assisted by Ring Sight." The course was prepared originally for the antiaircraft training center at Dam Neck, Va.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4870. **Viteles, M. S., & others. University of Pennsylvania unit lesson plans for 4-day course in 40 mm. gunnery, Sept. 1, 1943.** (OSRD, 1943; Publ. Bd., No. 6556.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—Information is given on a manual for a course in 40 mm. gunnery prepared with the cooperation of officers of the U. S. Navy.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4871. **Walker, K. F., & Oxlade, M. N. A tentative battery of tests for the selection of women for cotton textile spinning.** *Bull. industr. Psychol. Personnel Pract., Melbourne*, 1946, 2, 6–27.—A test battery, consisting of the Otis Higher Examination, Australian Revised Minnesota Paper Form Board, Lacing Board, Detroit Manual Ability Test, a spinning board, and modifications of the Minnesota Rate of Manipulation Test, was administered to 67 women cotton spinning operators. "Foremen's ratings were found to be related to scores in the Detroit, Lacing Board, Spinning Board, placing and turning tests." Correlations of test scores with production varied between + .04 and + .27.—*F. K. Berrien* (Colgate).

4872. **Washer, F. E., & Williams, H. B. Precision of telescope pointing for outdoor targets.** *J. opt. Soc. Amer.*, 1946, 36, 400–411.—By rotating a weak prism, located in front of the objective of a Berger level telescope, it was possible to "point" the telescope at a target without any mechanical movement of the instrument itself. The probable error of a single pointing was found to have an average value of 0.62 sec. for practiced observers using outdoor targets and 0.24 sec. for indoor. Individual differences appear in the consistency of pointing by separate observers, and there are even differences between the observations of right and left eyes of the same individual.—*L. A. Riggs* (Brown).

4873. **Weiss, H. K. Tracer stereographs with vertical base line.** (OSRD, 1944; Publ. Bd., No. 20291.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 7. $0.50, microfilm; $1.00, photostat.—The procedures are described which are to be followed when the Stibitz method of using the tracer stereograph system is used for a vertical base line. The tracer stereograph system is a method of error measurement used for the determination of the miss distances of tracers fired at aerial targets. This system employs recording theodolites which track the target continuously, photographing the target and the tracer position relative to the target at closely spaced intervals of time. After developing the film, it is possible to determine, from records taken simultaneously from 2 vertically separated stations, the instant of time at which each tracer reached the range of the target and then to read from the film at this instant the angular deviation of the projectile from the target. This system was first used with a horizontal base line.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4874. **Wickert, F. [Ed.] Psychological research on problems of redistribution: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 18678.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 457. $5.00, microfilm; $31.00, photostat.—The main function of the redistribution station was to evaluate qualifications of combat returnees and to recommend a suitable assignment for them, by means of medical examinations and classification interviews. The use of psychological tests was developed as an aid in judging ability, knowledge, and attitudes and in identifying men needing special study. Tests were set up to discover combat leaders and instructors, and psychological studies of anxiety reaction to combat were made. Appendices give examples of forms, tests, data assembled, glossary of technical terms, and tables.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4875. **Willerding, H. G. Die Einwirkung von mit Prismengläsern hervorgerufenen Augenbewegungen auf die Steuerhandhabung gewisser Verkehrsmittel.** (The influence of eye movements induced by prismatic glasses on control of the driving of certain vehicles.) *v. Graefes Arch. Ophthal.*, 1941, **143**, 207–223.—The results of Martin's experiments are confirmed with 8 subjects: the wearing of defective glasses may lead to poor control of driving.—(Courtesy *Année psychol.*).

[See also abstracts 4410, 4414, 4418, 4454, 4455, 4459, 4464, 4466, 4474, 4482, 4484, 4487, 4489, 4492, 4497, 4499, 4501, 4507, 4508, 4510, 4512, 4513, 4515, 4516, 4525, 4526, 4527, 4529, 4530, 4533, 4534, 4536, 4548, 4549, 4550, 4557, 4560, 4571, 4575, 4576, 4668, 4674, 4679, 4684, 4733, 4878, 4887, 4903, 4908.]

EDUCATIONAL PSYCHOLOGY

(incl. Vocational Guidance)

4876. **Anderson, H. H., & Brewer, J. E. Studies of teachers' classroom personalities, II. Effects of teachers' dominative and integrative contacts on children's classroom behavior.** *Appl. Psychol. Monogr.*, 1946, No. 8. Pp. 128.—This is a further report (see 19: 3480) on the study of teachers' dominative and socially integrative behavior in the classroom, revising somewhat the earlier procedure and applying it to 2 second grades, 2 fourth grades, and 1 sixth grade taught by 4 departmental teachers. Satisfactory reliability was found at all levels, and the method was found equally effective even in the departmentalized program of the sixth grade. The data reported in these studies are replete with mental hygiene implications and with suggestions for further extensions of the work.—*T. E. Newland* (U. S. Military Academy).

4877. **Archer, C. P. Teacher selection and preservice education in Australia.** *Sch. & Soc.*, 1946, **64**, 1–3.—*R. C. Strassburger* (St. Joseph's College for Women).

4878. **Bäckström, H. Die Dezimalgleichung beim Ablesen von symmetrischen Skalen, ihre zeitliche Beständigkeit und ihre Abhängigkeit von der Ablesungsgeschwindigkeit, der Übung, u. a.** (The decimal equation in the reading of symmetrical scales, its temporal stability, and its dependence upon the speed of reading, experience, etc.) *Z. InstrumKde*, 1940, **60**, 231–237; 261–271.—This study concerns individual differences in the ability to divide scales into intervals of tenths.—(Courtesy *Année psychol.*).

4879. **Bartlett, N. R. Analysis of attrition in the Submarine School, and of factors contributing to attrition: school drops, school referrals and courts-martial.** (Bur. Med. Surg., 1944; Publ. Bd., No. 23058.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 5. $0.50, microfilm; $1.00, photostat.—Biserial correlation coefficients are reported for failures to graduate from Submarine School for 4 tests developed by OSRD by the use of psychiatric criteria. Further evidence is presented showing the relationship between clinical evaluations and school failure. Some light is thrown on the reasons for school failure by summarizing the reasons tabulated for each failure by the school personnel officer. However, inadequate data exist thus far to afford a delineation of the specific factors contributing to attrition. The selection devices reported here are shown to have a tendency to improve the Submarine School population according to the criterion of disqualification.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4880. **Blaesser, W. W. [Chm.] Student personnel work in the postwar college.** *Amer. Coun. Educ. Stud.*, 1945, **9**, Ser. 6, No. 6. Pp. vi + 95.—A special subcommittee of the Council's Committee on Student Personnel Work was appointed to make a study of the postwar educational problems and to make recommendations concerning necessary modifications of prewar personnel work to meet the postwar need. This booklet contains the committee's recommendations and deals with such topics as the following: selection of students, faculty counseling, vocational counseling, student health, housing, financial aids, and administration of student personnel services.—*L. Long* (City College of New York).

4881. **Bradford, E. J. G. Selection for technical education. Part II.** *Brit. J. educ. Psychol.*, 1946, **16**, 69–81.—This part of the paper (see also 20: 2887) concerns chiefly the results of the investigation. Correlations of the 4 groups of school subjects (language, science, drawing, and shopwork) with the performance tests and with selected psychological tests are reported. It is concluded that performance tests give a poor indication of success in the technical curriculum. Tests of a scholastic content and performance tests, apart from the general factor common to both, give antithetical results which appear to be due to alternative modes of thinking based upon symbolic manipulation and imaginal arrangement respectively. To the extent that performance tests reveal practical bent, this results from the importance of visuo-kinesthetic imagery in the solution of practical tasks. Such tests are of value for selection purposes because they disclose, more clearly than paper-and-pencil tests, the emotional qualities relevant to success in technical education.—*R. C. Strassburger* (St. Joseph's College for Women).

4882. **Clerck, J. de. Nota bij het onderwijs in de psychologie aan de normaalscholen.** (Note on the teaching of psychology in training colleges.) *Vlaam. Opvoedkund. Tijdschr.*, 1941, **22**, 81–96.—It is a well-known fact that the teaching of psychology in normal schools has not met with expected returns. Psychology may be taught in 3 different fashions: (1) by lectures, ex cathedra, (2) by practical experiments demonstrated by the professor, and (3) by experiments in which the student takes an active part. Only the latter method can give satisfaction.

In North America this method is widely used. The author gives examples of practice exercises which have been taken from a syllabus by Whipple, from a course planned by Turner and Betts, and from a method used by Watson and Spence. In conclusion, he suggests the establishment of psychological exercises in Belgian normal schools. The new course should include: (1) a student's manual, giving an introduction to the problem together with the methods to be used; (2) a text book, supplying all the necessary reference material; and (3) a small manual, containing solutions to the problems and practical applications.—*L. Coetsier* (Ghent).

4883. **Denijs, B. De psychologische "ganschheid" in stijl en taal.** (Psychological totality in style and language.) *Vlaam. Opvoedkund. Tijdschr.*, 1941, **22**, 240–247.—The article follows the ideas developed by Père Arduyn Opbrouck in *Stijl en Taal*. It deals with teaching postprimary written language by a method where intuition and technique, sentiment, imagination, and reason enter into play as organic wholes.—*L. Coetsier* (Ghent).

4884. **Finch, F. H. Enrollment increases and changes in the mental level of the high school population.** *Appl. Psychol. Monogr.*, 1946, No. 10. Pp. 75.—On the basis of a review of earlier test-retest studies of group-measured intelligence at the high-school level and in the light of his own retest of two Midwestern high-school populations after 19 and 16 years, the conclusion is reached that there is no evidence of "loss in the average level of measured mental ability as enrollments increased." The data indicate even a slight increase in the mental capacity and a slight decrease in the age of more recent (1942) and proportionally significantly larger high-school populations. The educational implications of the results are emphasized. 60-item bibliography.—*T. E. Newland* (U. S. Military Academy).

4885. **Fowler, F. M. Interest measurement—questions and answers.** *Sch. Life*, 1945, **28**, No. 3, 25–29.—Answers, based on a survey of the recent literature, are presented for the following series of questions: What is interest? Are self-estimated interests dependable? Which interest test should be used? What relationship does interest have to ability and other traits? How permanent are interests? How reliable are interests? Are interest tests valid? How can interest measures best be used for counseling?—*G. S. Speer* (Illinois Inst. Tech.).

4886. **Fransen, F. De taak der school bij de beroepsoriënteering.** (The task of the school in vocational guidance.) *Vlaam. Opvoedkund. Tijdschr.*, 1942, **23**, 24–31; 163–176.—Schools must give children information concerning possibilities in professional life, insist upon the social and moral values of work, and make numerous psychological, pedagogical, and medical observations which constitute one of the bases of professional orientation.—*R. Piret* (Liége).

4887. **Gibson, J. J. [Ed.] Motion picture testing and research: preliminary draft.** (AAF, Aviat. Psychol. Program, 1946; Publ. Bd., No. 18682.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 314. $3.50, microfilm; $21.00, photostat.—Research on the utilization of the motion picture medium for purposes of psychological testing and examining in the AAF and research on the problems of administering and scoring motion picture tests are presented. Additional teaching problems, such as the presentation of films to groups who view it from various angles and the techniques of teaching with the film medium, are treated in a general way that will be of interest to psychologists and educators. Some unusual problems, such as the representation of 3-dimensional space by pictures, are brought out. An appendix gives a model lecture to accompany a training film and a list of psychological test films.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4888. **Gregory, W. S. The Gregory academic interest inventory.** Beverly Hills, Calif.: Sheridan Supply Co., 1946. Test booklets, 25 copies, $2.50; single copy, 10c. Answer sheets, single copy, 3c. Scales, single copy, 90c. Manuals, single copy, 10c.

4889. **Heath, C. W., & Gregory, L. W. Problems of normal college students and their families.** *Sch. & Soc.*, 1946, **63**, 355–358.—Of a group of 259 male college sophomores chosen for good health, satisfactory academic status, and overtly good social adjustment, 90% either raised problems which they wished to discuss or presented problems recognized by the investigating staff as demanding aid in their solution. In 17% of the cases, the issue was urgent or acute. Although there was considerable variation in the type of problems discussed, most of them concerned social and family relationships. Strained relations with parents appeared prominently among the more acute problems. It is apparent that even "normal" young men are relatively poorly prepared for adjusting to college life and lack the parental support and encouragement necessary to a favorable atmosphere for education.—*R. C. Strassburger* (St. Joseph's College for Women).

4890. **Hunt, E. P., & Smith, P. Scientific vocational guidance and its value to the choice of employment work of a local education authority. Report of research.** Birmingham, Eng.: City of Birmingham Education Committee, 1944. Pp. 80.—[Abstracted review; original not seen.] An investigation of 1,639 elementary students was undertaken to assess the value of vocational guidance. All children were followed up for 2 years and 603 for 4 years. Half had been given (during school experience) a battery of tests, and half were untested controls. Evaluating information was obtained from standard forms completed by the children and their employers and from other records of employment. The report concludes that those who enter posts in accord with the guidance given them are (1) the more stable, as shown by the length of time a post is held, and (2) are the more suited to their work, according to their own reports and those of their employers.—*F. K. Berrien* (Colgate).

4891. **Long, J. A. Educational research: measurement and evaluation.** *Bull. Canad. psychol. Ass.*, 1946, 6, 33–35.—Abstract.

4892. **McIntosh, J. R. Educational counselling and remedial techniques.** *Bull. Canad. psychol. Ass.*, 1946, 6, 32–33.—Abstract.

4893. **McIver, J. M. A photoelectric visual substitute.** (1945; Publ. Bd., No. 2451.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 10. $0.50, microfilm; $1.00 photostat.—The apparatus, designed by M. Knoll, a German inventor, described in this report, is a visual substitute, not a visual aid. It utilizes the proprioceptive sense of the finger tips. With this apparatus, it is claimed, any type of printed matter can be rapidly interpreted. Apparatus does not require any special print or letters as in Braille, and ultimately a very gross type of form perception will be achieved. The basic element of the apparatus is the photoelectric plate composed of numerous photoelectric cells. Each photoelectric cell has its own electric cord. These are grouped to form a small cable which connects to a battery which in turn runs through a resistance coil. The coil is connected to an electrode against the blind man's skin. Accompanying the description are two papers in German: one by R. Wagner includes a translation; the other one is by R. Wagner and E. Wetterer.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4894. **Martin, L. O. Teachers colleges can select students with superior ability.** *Sch. & Soc.*, 1946, 63, 318–319.—That a teachers college can select students of superior ability is demonstrated by the fact that, over the period 1935–1944, the yearly average scores on ACE Psychological Examination of freshmen at New Jersey State Teachers College at Trenton were higher than those of students at 4-year colleges in all but 3 years of the period studied. The definiteness of purpose of the teachers college, moreover, makes for continuous emphasis on selection over the entire academic period and on the matter of placement. Selection is further evidenced in the fact that, over the 10-year period studied, poor scholarship was the most frequent cause of withdrawal from college. Scores on the Cooperative General Culture Test given to seniors in 1940 show that students with the highest scores were more likely to be placed in teaching positions. Requiring all seniors to take the National Teacher Examination is a further step toward more effective selection.—*R. C. Strassburger* (St. Joseph's College for Women).

4895. **Moreton, F. E. Attitudes of teachers and scholars towards co-education.** *Brit. J. educ. Psychol.*, 1946, 16, 82–95.—Teachers in secondary schools reveal attitudes preponderantly favorable to coeducation. On a scale extending from + 38 to − 38, the average score is + 15.9, with the mean scores of women exceeding those of men in each category. Teachers generally believe that coeducation does not increase problems of discipline and that the influence of the sexes on each other's development is beneficial. Attitudes toward sex equality of graduates of coeducational and single-sex schools are not significantly different: 72% of those from coeducational schools assert their schooling has been helpful in their relations with the other sex as compared with 17% from the single-sex schools who express this judgment. Graduates of coeducational schools strongly favor such education, while those from single-sex schools divide about evenly on this issue. In the opinion of the headmasters, the known tendency of the sexes to separate during early adolescence is not an obstacle to coeducation, nor is difficulty experienced from sex differences, which may, in fact, be beneficial under mixed education.—*R. C. Strassburger* (St. Joseph's College for Women).

4896. **Olson, W. C. The improvement of human relations in the classroom.** *Childh. Educ.*, 1946, 22, 317–325.—A third grade in the University of Michigan laboratory school was studied in an attempt to improve the quality of social relations in the group. Teachers, a pediatrician, a psychometrician, and a human biologist collaborated to analyze the psychobiological characteristics of the group. Family and community relations were studied. Sociometric tests were made at the beginning of the study and after 6 months of recommended treatment of the group by changes in teacher techniques, parent conferences, etc. The follow-up study, 6 months later, gave the teacher's subjective estimate of improved social relations, but the sociometric tests failed to reveal significant changes. Of importance was the conclusion that children's social relations in a classroom have deep roots in community and family living as well as in the physical, mental, and emotional differences among the children. For the understanding of group behavior, more studies of the child as a human organism in a field of social forces are recommended.—*M. F. Fiedler* (Vassar).

4897. **Pressey, S. L. Time-saving in professional training.** *Amer. Psychologist*, 1946, 1, 324–329.—The author concludes as follows: "A great variety of evidence indicates that full-time professional education should be completed at an earlier age than was usual before the war. Instead, wartime interruptions of education and current plans for improvement of professional training are both operating in the other direction. There is much evidence that (a) by advancing students according to competency rather than educational time-serving, and (b) by various means for facilitating the work of the ablest students, time in school can be reduced and several years added to professional career. Psychology should take the lead in adjusting total educational programs to development and change throughout the life span, to individual differences, and to possibilities as to efficiency in learning. Such adjustments are especially needed right now."—*N. R. Bartlett* (Johns Hopkins).

4898. **Remmers, H. H., & Davenport, K. S. Youth looks at education.** *Amer. Sch. Bd J.*, 1946, 113, No. 2, 19–21.—The results of an opinion survey of 6,000 high-school students are presented and compared with a similar survey a year ago. In

addition to general trends of opinion as shown by the complete study, comparisons are made between attitudes and belief of students in different states, rural and urban schools, good and poor home environment, and school grades.—*G. S. Speer* (Illinois Inst. Tech.).

4899. **Shevenell, R. L'Institut de Psychologie et le Centre d'Orientation.** (The Institute of Psychology and Orientation Center.) *Rev. Univ. Ottawa*, 1946, **16**, 234–249.—The Institute, founded in October 1941, is a research and teaching body; the Center is a bureau of psychological services. Psychologists in the Institute aim at research in psychology and education, teaching special courses, developing selection methods for industry and the armed forces, the direction of personnel in commercial, industrial, religious and other enterprises, co-operation with the fields of social work and mental hygiene, etc. They train the "psychotechnicien," the "psychologue-consultant," and (at the top level) the "clinicien" or "conseiller" or director of a clinic. The series of tests so far developed includes French revisions of the Otis, Bernreuter, Bell, Brown, Stenquist, and other tests. The Center combines efforts of psychologists, technicians, physicians, and educators. It provides services of the sort usually found in child guidance clinics, marriage clinics, and vocational guidance bureaus.—*W. L. Wilkins* (Notre Dame).

4900. **Sívori, A. J. La delincuencia infantil, la educación y la instrucción.** (Child delinquency, education and instruction.) *Pediat. Amér. Méx.*, 1946, **4**, 337–344.

4901. **Strunz, K. Zur Grundlegung der Psychologie des mathematischen Sinnverständnisses.** (The psychological principles of mathematical comprehension.) *Arch. ges. Psychol.*, 1940, **106**, 261–374.—This theoretical study is based upon pedagogical experience and introspections during many years of mathematical study.—(Courtesy *Année psychol.*).

4902. **Thorndike, A. Correlation between physics and mathematics grades.** *Sch. Sci. Math.*, 1946, **46**, 650–653.—In an attempt to develop a predicator for success in high-school physics, a study was made of the relation of foreign language grades, mathematics grades, and physics. The 4-year-average foreign-language grade correlated 0.46 with physics, and the 3-year-average mathematics grades correlated 0.77. Geometry alone gave a lower correlation than the combination of geometry and algebra. —*G. S. Speer* (Illinois Inst. Tech.).

4903. **U. S. Bureau of Naval Personnel, Standards and Curriculum Division. Predictive efficiency of the Navy basic test battery at Naval Training School (gunner's mates—electrical hydraulics), Navy Yard, Washington, D. C.** (NAVPERS Selection Test Rep., 1945; Publ. Bd., No. 28986.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 13. $1.00, microfilm; $1.00, photostat.—The purposes of this study were threefold: to determine how well the tests of the Basic Test Battery predicted success in courses at Class "B" Gunner's Mate School, Washington Navy Yard; to identify the tests in the Basic Test Battery that were most efficient in predicting success; and to establish the level of test proficiency which would insure a reasonable chance for success. The principal findings of the study were: (1) that success at Class "B" Gunner's Mate School was found to be effectively predicted; (2) that the validity coefficients of the tests ranged from .44 to .63; (3) that 56% of the failures at the school would have been rejected (before attempting the course) at a cost of only 13% of successful trainees had only those men with an average score of 50 or higher on the Reading Test and Mechanical Aptitude Test been sent to the school. A description of the Basic Test Battery is included.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4904. **Utley, J. A test of lip reading ability.** *J. Speech Disorders*, 1946, **11**, 109–116.—The test material, consisting of 72 words and 62 sentences, was found to have a split-half reliability of .84 for words and .88 for sentences. A story test was added, which was scored on the basis of answers to pertinent questions. A motion picture of persons speaking this test material, with a running-time of 1 hr. 15 min., was administered to 761 deaf and hard-of-hearing individuals ranging in age from 8 to 21, in grade from first through twelfth, and in age of onset of deafness from birth through 15 years. Reliability coefficients for the 2 forms of the test and for the word test and the sentence test are all high. Teachers ratings for lip-reading ability correlated only .43 with total test scores. Lip-reading ability cannot be predicted on the basis of chronological age, reading achievement, total school achievement, or grade placement. The test is adequate for measuring lip-reading ability from the third-grade level through the adult level.—*W. H. Wilke* (New York Univ.).

4905. **Waeyenberghe, A. v. Guide des études en Belgique.** (Guide on education in Belgium.) Brussels: Clerebaut, 1945. Pp. 107.—This guide instructs children, parents, educators, and professional counselors on the Belgian school system.—*R. Piret* (Liége).

4906. **Weiner, B. B. Classroom observation for learning difficulties of high-grade mentally defective children with mental ages below six years.** *Amer. J. ment. Def.*, 1946, **50**, 495–502.—A teacher of mentally retarded children can make and record valuable observations in her classroom. Various techniques are mentioned by which a teacher can supplement information gained by standardized psychometric tests. Five children who have been rated by the techniques are discussed.—*L. LeShan* (Clark).

4907. **Wells, F. L. Clinical psychometrics in higher education.** *J. nat. Ass. Deans Wom.*, 1946, **9**, 51–56.—Brief comments are presented about tests appropriate for use with college students when a clinical picture is desired. Such tests as the following are mentioned: Wechsler-Bellevue, Scholastic Aptitude, Army Alpha, Primary Mental Abilities, Ror-

schach, Thematic Apperception, and Kuder Preference Record.—*L. Long* (City College of New York).

4908. **Wiggin, B. E., & Bartlett, N. R. Development of a method for obtaining personal preferences from within small groups, and the relationship of such evaluations to other psychiatric and psychological data.** (Bur. Med. Surg., 1944; Publ. Bd., No. 23046.) Washington, D. C.: U. S. Dep. Commerce, 1946. Pp. 8. $0.50, microfilm; $1.00, photostat.—The problem of furnishing reliable personal classification data for certain service tasks is a most pressing one. Medical and selection departments have evolved standard tests and interview techniques that have proved useful. According to available information, however, grading techniques and classification procedures within some service schools have not been so developed. Typically, classification grades are assigned by an experienced instructor after some systematic observation or test of the men to be graded. The personal preference technique described in this report employs, instead, the opinions of many who are not expert but who have had opportunity for more adequate observation of each other than is ever possible for an instructor to have. The technique was investigated for its feasibility as a supplement to instructors' grades.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce*).

4909. **Zahrobsky, M. The Illinois program for educating handicapped children in the public schools.** *Soc. Serv. Rev.*, 1946, **20**, 180–197.—*G. S. Speer* (Illinois Inst. Tech.).

[See also abstracts 4423, 4449, 4450, 4675, 4686, 4731, 4749, 4837, 4912, 4936.]

MENTAL TESTS

4910. **Buyse, R. Place, rôle et limites des tests dans la psychologie expérimentale.** (Place, part, and limits of tests in experimental psychology.) *Cah. Pédag., Univ. Liége*, 1940, **5**, 149–154.—This article is a résumé of the origin, evolution, and present status of tests. It also includes an account of what tests should contain and their limitations.—*R. Piret* (Liége).

4911. **Kohnstamm, P. Over het probleem van "psychische metingen" in 't algemeen en van "intelligentie-metingen" in 't bijzonder.** (On the problem of "psychological measurements" generally and of "measurements of intelligence" especially.) *Tijdschr. Phil.*, 1942, **4**, 323–344; 547–580.—After a few general statements on measurement, the author states that one can speak of intensities in psychology, but not of quantities. For example, Rubens may be a greater painter than Teniers, but it would be absurd to say that he is 17.3 times better. Binet's measures of intelligence may be criticized from this point of view, since he converted intelligence into a number system. The author criticizes Thorndike's concept of height, width, and speed in intelligence. He believes that Thorndike did not succeed in expressing height in numerical terms. His use of the absolute zero in intelligence is arbitrary and the use of the Gaussian curve is contestable. The author criticizes oversights made in the treatment of the raw data. The manner in which the responses are obtained is of primary interest. The author is interested in potential intelligence and the possibilities of its development. There is no general intelligence, but there are at least 3 different types: creative intelligence, theoretical intelligence, and practical intelligence.—*R. Piret* (Liége).

4912. **Rimoldi, H. J. A., Bührer, L., San Martin, R. de, Cortada, N., & Velasco, E. S. Desarrollo intelectual entre los 11 y los 14 años.** (Intellectual development between ages 11 and 14.) *Publ. Inst. Psicol. exp., Univ. Cuyo*, 1945, **1**, 117–237.—Results from a battery of 25 tests used with 174 pupils of each sex in the Mendoza, Argentina, schools were studied in relation to age increments, sex, scholastic achievement, etc. For both sexes, the greatest variability was at age 12–13. Girls "leveled off" sooner, but the boys seemed to be favored by the capacities measured. Correlation with school subjects was higher for mathematics than for Spanish. Extensive bibliography and 42 tables.—*H. D. Spoerl* (American International College).

4913. **Schafer, R. The expression of personality and maladjustment in intelligence test results.** *Ann. N. Y. Acad. Sci.*, 1946, **46**, 609–623.—Unlike older IQ tests, recent tests are designed and used so as to reveal impairments in specific intelligence functions and their bearing on personality. The Wechsler-Bellevue Scale is an example of an IQ test which may be used as a nonprojective personality scale. Methods of analyzing Bellevue data so as to emphasize their personality implications, such as vocabulary scatter, mean scatter, subtest comparisons, etc., are discussed. Four typical cases are presented and illustrated by profiles. The criteria which an IQ test must meet to satisfy the demands under consideration are also discussed. The paper is one of a series in a conference on "Non-projective Personality Tests."—*M. O. Wilson* (Oklahoma).

4914. **Thurstone, T. G., & Thurstone, L. L. Tests of primary mental abilities for ages 5 and 6.** Chicago: Science Research Associates, 1946. 25 copies, $2.35; specimen set, $0.50.

[See also abstracts 4432, 4442, 4687, 4708, 4770, 4907.]

CHILDHOOD AND ADOLESCENCE

4915. **Aldrich, C. A., Norval, M., Knop, C., & Venegas, F. The crying of newly born babies. IV. Follow-up study after additional nursing care had been provided.** *J. Pediat.*, 1946, **28**, 665–670.—A second observational study on crying of infants during the first 8 days of life was conducted in January, 1945. Changes had been made in the nursery routine, and daily nursing care increased from 0.7 to 1.9 hr. for each baby. The mean daily crying for each infant dropped to 55 min. from 113.2 in the 1944 study. Hunger was the most frequent

cause of crying (37.0%) and unknown causes second (31.1%). Comparisons are made with the 1944 study on causes, amount, and frequency of crying. (See also 19: 2777; 20: 349, 1285.)—*M. C. Templin* (Minnesota).

4916. **Bixler, R. H. A method of case transfer.** *J. clin. Psychol.*, 1946, **2**, 274–278.—"An interview prior to the transfer of a twelve-year-old boy from one counselor to another is presented. The problems involved and a method of dealing with them are described."—*L. B. Heathers* (Univ. Washington).

4917. **Black, I. S. Off to a good start; a handbook for modern parents.** New York: Harcourt, Brace, 1946. Pp. xii + 256. $2.50.—A discussion is presented of child development, primarily for parents but also suitable for supplementary student use, from the point of view of psychiatric, psychological, and educational approaches which "have turned away from emphasis on habit-training at the expense of everything else." Training, growth, "bad habits," discipline, punishment, sexual development, aggression, Santa Claus, intellectual growth, and schooling are some of the subjects treated under the major headings: The Child Himself and His Habits; The Child in His Family: Relationships With Other People; Adventuring in the Larger World; and Intellectual Growth and Self-Expression. Some portions of the text have appeared in *Parent's Magazine* and the newspaper *PM*.—*L. J. Stone* (Vassar).

4918. **Callista, Z. M. De psychologie van het eenig kind.** (The psychology of the only child.) *Vlaam. Opvoedkund. Tijdschr.*, 1942, **24**, 37–147.—This article is a review of the work done on the only child in many countries. Certain authors have attributed a series of shortcomings to the only child (nervousness, antisocial attitudes, egoism, etc.); other investigators believe that the only child is superior to others with respect to intelligence and character. These contradictions arise, according to Callista, because of different points of view, methods of study, and social matrices. New investigations are necessary in order to gain dependable results. There is a bibliography of 101 references.—*R. Piret* (Liége).

4919. **Chen, H. P., & Irwin, O. C. The type-token ratio applied to infant speech sounds.** *J. Speech Disorders*, 1946, **11**, 126–130.—A 3-dimensional graph is presented, showing the relation of the type-token ratio to age of the infant and size of the token. This ratio has been applied to some aspects of infant speech sound development.—*W. H. Wilke* (New York Univ.).

4920. **Clarke, T. W. Children's idiosyncracies.** *Arch. Pediat.*, 1945, **62**, 498–509; 554–562.—Following a general discussion is a detailed discussion of children's appetites with commonsense suggestions for training the infant and child to eat properly.—*R. W. Beebe* (Washington Inst. Ment. Hyg.).

4921. **Cohen, D. W., & Carper, M. L. Long range prognosis fo child guidance clinic cases.** *Psychiat. Quart. Suppl.*, 1945, **19**, 20–27.—This represents the findings from a survey of 2,491 cases referred 5 years ago to the New York State Department of Mental Hygiene's child guidance clinics. Present adjustment status was obtained for 1,859 cases. Of these, 44.3% have made a satisfactory adjustment, 8% are much improved, 27.3% are improved, and 20.4% are unimproved. Of the larger groups, the best results were obtained in the social problems groups, the primary behavior problems group, and the educational disabilities group. Poorest results were obtained in the psychopathic personality group.—*W. E. Artus* (Columbia).

4922. **Dellaert, R. Uit de practijk der medisch-psychologische kinderkliniek.** (The function of the medical-psychological clinic for children.) *Vlaam. Opvoedkund. Tijdschr.*, 1942, **23**, 7–19.—In child psychopathology, each case is unique. The medical-psychological clinic must become interested in all adaptation crises, retardation of development, affective complexes, etc. The author reviews some typical cases treated in his clinic at Antwerp. These examples show that the medical-psychological clinic has a humanitarian task to fulfill in helping these children fit themselves for life.—*R. Piret* (Liége).

4923. **Espallier, V. d'. Organisatie en taak eener medisch-psychologische kinderkliniek.** (The organization and function of a medical-psychological clinic for children.) *Vlaam. Opvoedkund. Tijdschr.*, 1941, **22**, 61–80.—Medical-psychological clinics treat not only juvenile delinquents but also children who lack family, social, and school adjustment. The difficulties may be of growth, nerves, psyche, perversions of character, retardation in studies, etc. In view of the diversity of maladjustments, an all-inclusive definition becomes impossible. In each case it is necessary to make a complete personal inventory and personal history. The examination should include the following: an interview, medical examination, examination with the aid of psychological testing instruments, psychiatric examination, observation of play habits, and an examination of school achievement. The examiners then should enter into consultation in order to form a diagnosis and to prescribe treatment.—*L. Coetsier* (Ghent).

4924. **Espallier, V. d'. Inleiding tot de studie van het eenig kind: bevolkings- en opvoedingsproblemen.** (Introduction to the study of the only child: problems of population and education.) *Vlaam. Opvoedkund. Tijdschr.*, 1941, **22**, 296–358.—Consideration of the problem of the only child must proceed in relation to a background of declining birth rate. By use of statistics, the author proves that the Belgian birth rate is insufficient and that the mean age is increasing. He analyzes the psychological causes for the decline as well as the unequal distribution of only children among social groups and different regions of the country. He extends the concept of the only child to all children who are psychologically alone in life. The only child's particular character traits are in large part determined by his milieu.—*L. Coetsier* (Ghent).

4925. **Espallier, V. d'. Phasen in de kinderlijke ontwikkeling.** (Stages in the development of the child). *Vlaam. Opvoedkund. Tijdschr.*, 1942, **23**, 40–62; 105–115.—The author demonstrates that it is not easy to determine phases of development with any precision because of individual differences and the influence of many other factors. Periods of development originated by Gesell, Sikorsky, Buseman, and Schmeing are cited, and those of Kroh and Bühler are discussed at length. He concludes with a few pedagogical conclusions, notably that teaching should keep in step with the development of the child's total personality.—*R. Piret* (Liége).

4926. **Freeston, P. M. The influence of the war on juvenile and adolescent vocational interests.** *Occup. Psychol., Lond.*, 1946, **20**, 139–149.—This investigation of conceptions of adult life is based on contributed drawings and written work of 1,000 children, aged 5 to 14 in 1938, and 1,155 children, aged 5 to 19 in 1944. It is concluded that "present-day children are more aware of the realities of adult life and of the distance which separates them from it. They are more sociable and are influenced (especially in the case of girls) by a much wider environment. At the same time, they are more aware of their limitations and possibilities, and because of of this have been able to withstand the upheavals of wartime in social life, and even, in fact, to display greater stability and singleness of purpose than did the pre-war children."—*G. S. Speer* (Illinois Inst. Tech.).

4927. **Gesell, A. Behavior aspects of the care of the premature infant.** *J. Pediat.*, 1946, **29**, 210–212.

4928. **Gordon, A. Impulsive outbreaks in children.** *Med. Rec., N. Y.*, 1946, **159**, 537–539.—*M. H. Erickson* (Wayne County Gen. Hosp. & Infirm.).

4929. **Guillaume, P. L'intelligence sensori-motrice d'après Jean Piaget.** (Sensory-motor intelligence as seen by Jean Piaget.) *J. Psychol. norm. path.*, 1940/41, **37/38**, No. 4/6, 264–280.—Some of Piaget's conceptions of child development are reviewed and appraised.—*E. P. Johnson* (Brown).

4930. **Hewitt, E. S., & Aldrich, C. A. Poor eating habits of the runabout child: the role of physiologic anorexia.** *J. Pediat.*, 1946, **28**, 595–596.—Among 360 children from 1 to 3 years of age attending the well-baby clinics in Rochester, Minn., 82 (or 23%) were reported by their mothers to be troubled with anorexia. Several months after suggestions had been given the mothers, when 65 of the children were re-examined, 59 no longer presented eating problems and the remaining 6 presented multiple-behavior problems.—*M. C. Templin* (Minnesota).

4931. **Irwin, O. C., & Chen, H. P. Infant speech: vowel and consonant frequency.** *J. Speech Disorders*, 1946, **11**, 123–125.—Data on 95 infants throughout the first 2.5 years consists of 1,622 records, each record including sounds uttered in 30 breaths. Curves and equations are presented, showing that the frequencies of vowel and consonantal sounds develop in radically different ways. Vowel frequency exceeds consonantal throughout the first 30 months. Consonant frequency development is described by an exponential curve. The vowel frequency curve is a straight line to 24 months, then abruptly becoming parabolic.—*W. H. Wilke* (New York Univ.).

4932. **Landisberg, S., & Snyder, W. U. Nondirective play therapy.** *J. clin. Psychol.*, 1946, **2**, 203–214.—Client and counselor responses were analyzed in 4 cases of nondirective play therapy with children 5 to 6 years old, of about average intelligence. The total frequency of the various types of responses, their frequency in each fifth of the entire treatment period, and the relationship between type of counselor response and type of client response are presented. Information was given by the children much more frequently after nondirective counselor responses then after lead-taking or more directive counselor responses. In the children, the frequency of expression of positive attitudes towards others changed little, but the frequency of expression of negative attitudes towards others increased and then decreased slightly. Treatment seemed to consist largely of cathartic effects, since none of the children made insightful statements.—*L. B. Heathers* (Univ. Washington).

4933. **Liss, E. Coercion as a factor in siblings rivalry.** *Nerv. Child*, 1946, **5**, 247–250.—*G. S. Speer* (Illinois Inst. Tech.).

4934. **Lowenfeld, M., & Maberly, A. Discussion on the value of play therapy in child psychiatry.** *Proc. R. Soc. Med.*, 1946, **39**, 439–443.

4935. **Meredith, H. V. Physical growth from birth to two years: II. Head circumference. Part I. A review and synthesis of North American research on groups of infants.** *Child Develpm.*, 1946, **17**, 1–61.—See also **19**: 1367.—*L. Long* (City College of New York).

4936. **Missildine, W. H. The emotional background of thirty children with reading disabilities with emphasis on its coercive elements.** *Nerv. Child*, 1946, **5**, 263–272.—The emotional background of 30 normally intelligent children with reading difficulties was investigated. One third of the children had overtly hostile mothers, and another third had mothers who were markedly tense, criticizing, and coercive in their attitudes. Miscellaneous problems were found in the others. The reading disabilities were only a small part of their total maladjustment, and it is concluded that reading disability (in many children who do not respond promptly to specific remedial techniques) is a symptom of underlying emotional illness. 22-item bibliography.—*G. S. Speer* (Illinois Inst. Tech.).

[See also abstracts 4416, 4561, 4574, 4596, 4667, 4705, 4900.]

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